DAYTONA®

ECU TUNER FOR ANDROID

USER MANUAL

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PERHATIAN !!!

- ***DAYTONA ECU for Android di desain untuk penggunaan di dalam OLAH RAGA BALAP. Untuk pengoperasian dan setting, sangat disarankan agar dilakukan oleh mekanik professional.***
- ***Kesalahan setting dan pengoperasian bisa menyebabkan kerusakan pada mesin dan sepeda motor. Untuk melakukan setting dengan baik, sangat disarankan untuk menggunakan Dynamometer sebelum menjalankan sepeda motor.***
- ***Adalah tanggung jawab pemilik untuk menggunakan DAYTONA ECU for Android, Garansi terbatas selama satu tahun hanya berlaku untuk DAYTONA ECU for Android dan tidak untuk yang lainnya. Pembuat tidak bertanggung jawab atas segala kerusakan dan kerugian.***
- ***JANGAN MENJALANKAN MESIN ketika ECU TUNER sedang digunakan. Kesalahan yang tidak diharapkan bisa muncul dan menimbulkan masalah pada software.***
- ***Pastikan untuk melakukan tes jalan di tempat tertutup dan aman sebelum digunakan.***

1. Cara Installasi Software ke Perangkat Android

1.1 Dengan Mendownload Aplikasi dari Internet.

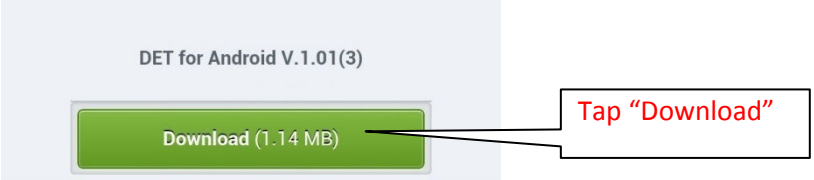
Untuk mendownload aplikasi dari internet ada 2 cara:

a. Buka internet browser di perangkat Android Anda dan masukkan link berikut *http://goo.gl/cdf881* lalu tap ”Go”

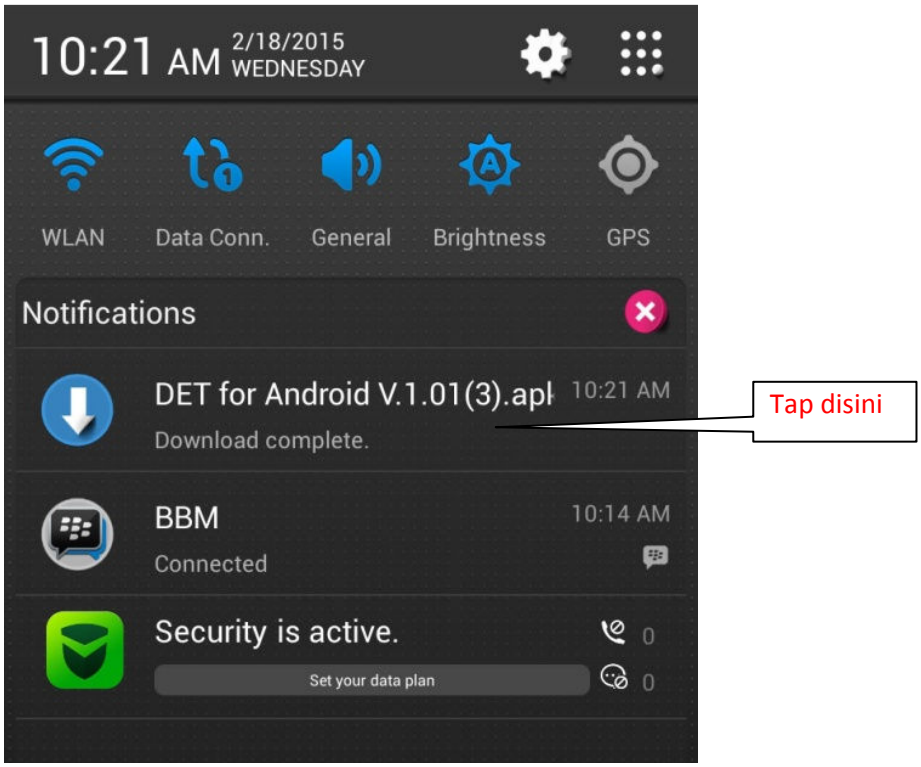
b. Scan kode batang ini dengan menggunakan QR Code Reader lalu tap “OK”

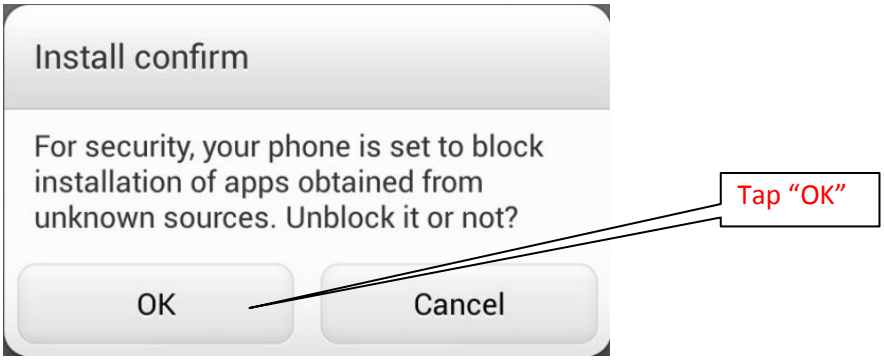
Website daytonaindonesia.com akan terbuka dan tap pada link Daytona Ecu Tuner for Android V.1.01--

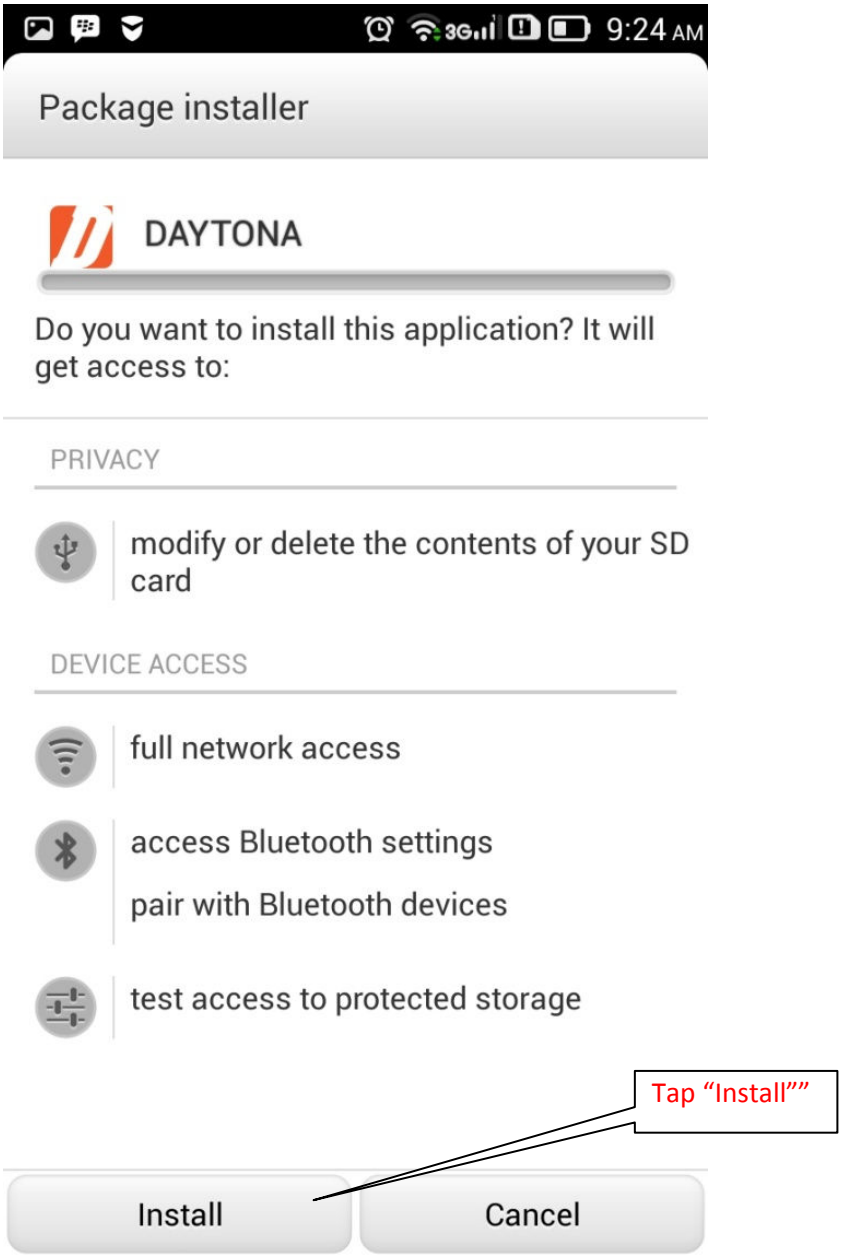
Link ini akan mengarahkan ke web file storage, dan tap pada menu “download”



Setelah download selesai buka file tersebut.




Install confirm
For security, your phone is set to block installation of apps obtained from unknown sources. Unblock it or not?
OK
Cancel
Tap “OK”

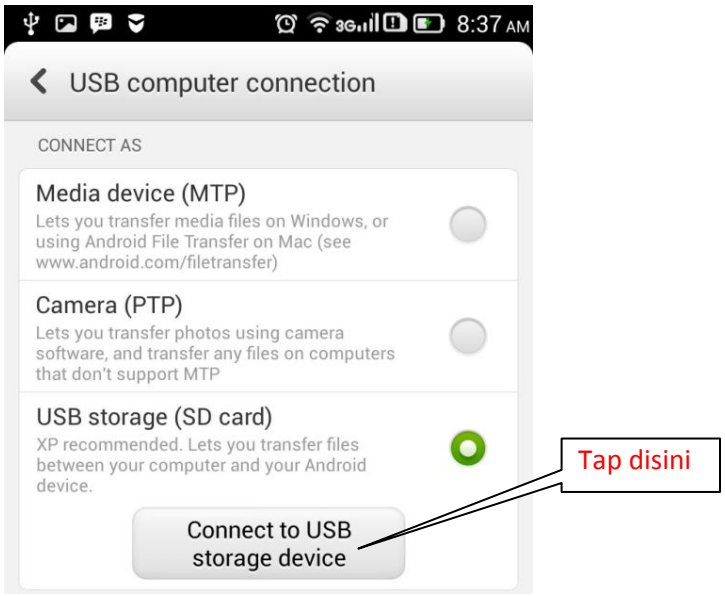


Tap “DONE” ketika selesai dan aplikasi sudah terpasang di perangkat Android Anda.

1.2 Dengan Menggunakan CD-ROM dari komputer.

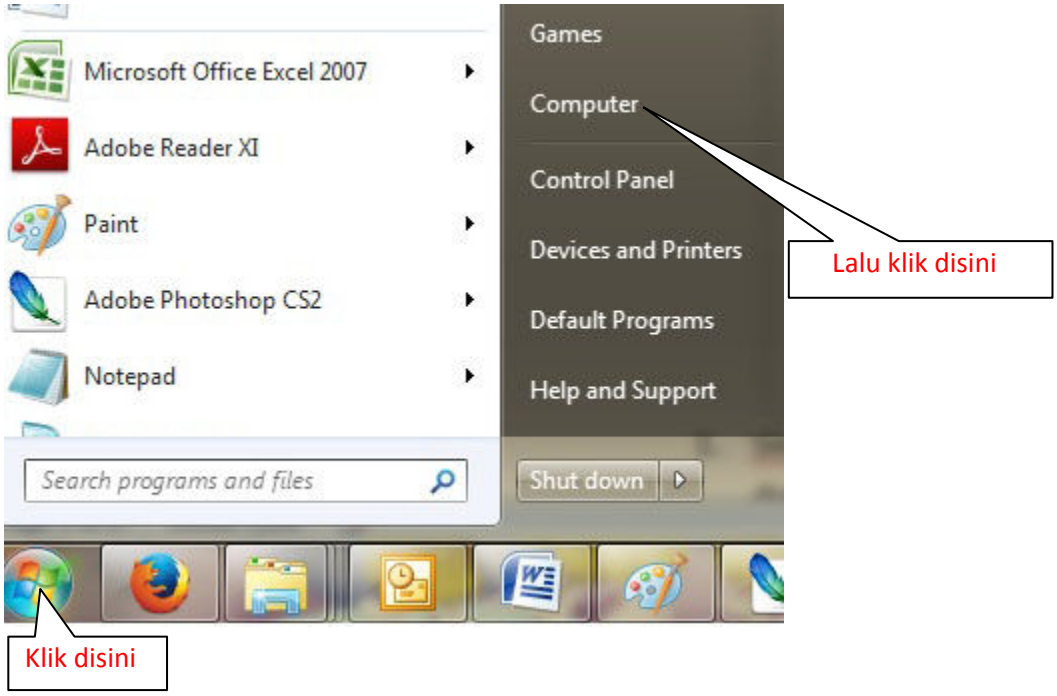
a. Hubungkan perangkat Android anda komputer.

b. Tap "*USB Computer Connection*" dan tap "*Connect to USB storage device*"

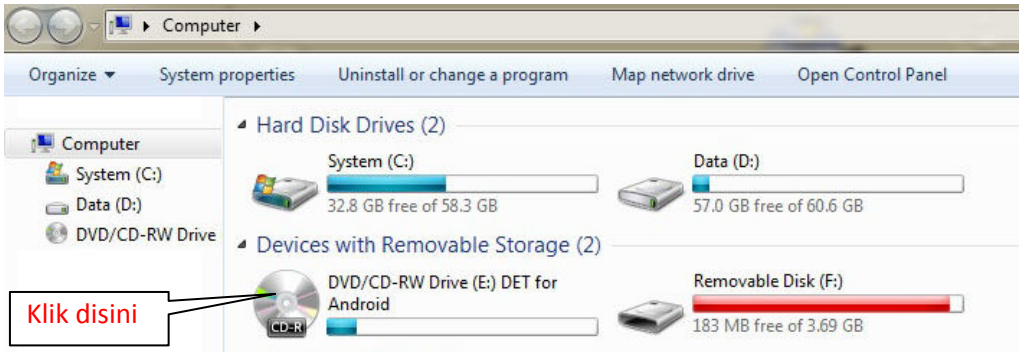

8:37 AM
USB computer connection
CONNECT AS
Media device (MTP)
Lets you transfer media files on Windows, or using Android File Transfer on Mac (see www.android.com/filetransfer)
Camera (PTP)
Lets you transfer photos using camera software, and transfer any files on computers that don't support MTP
USB storage (SD card)
XP recommended. Lets you transfer files between your computer and your Android device.
Connect to USB storage device
Tap disini

c. Jika koneksi berhasil, biasanya komputer akan mengenali adanya hardware baru yang terpasang dan otomatis menginstall driver "memory card" di komputer.

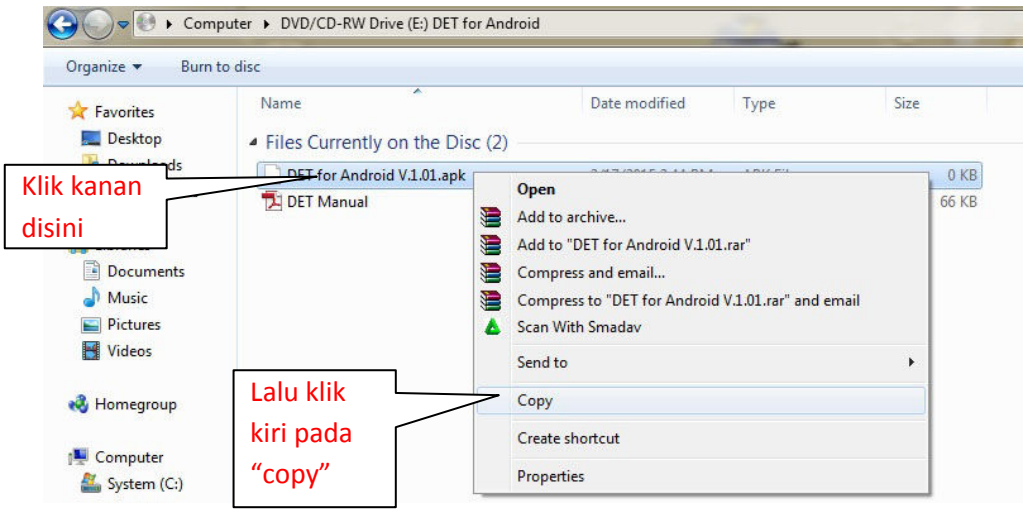
d. Masukkan CD yang sudah disertakan kedalam CD-ROM, lalu buka melalui "windows explorer" dengan cara klik "My Computer" di Start Menu.



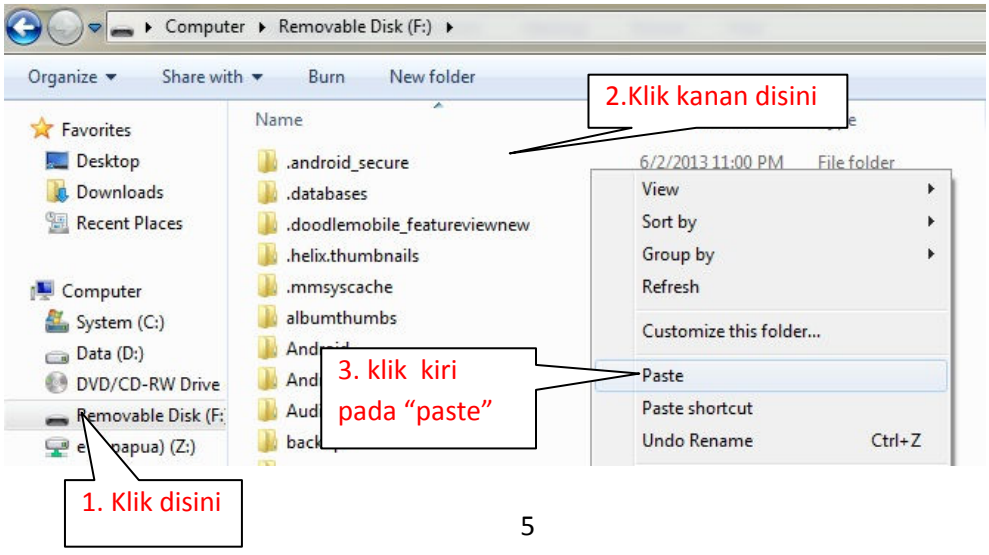
e. Setelah itu “windows explorer” akan terbuka, dan klik pada CD-ROM/DVD-ROM drive.



f. Copy / salin file “DET for Android V.1.xx” dengan cara klik kanan pada file tersebut dan pilih copy.

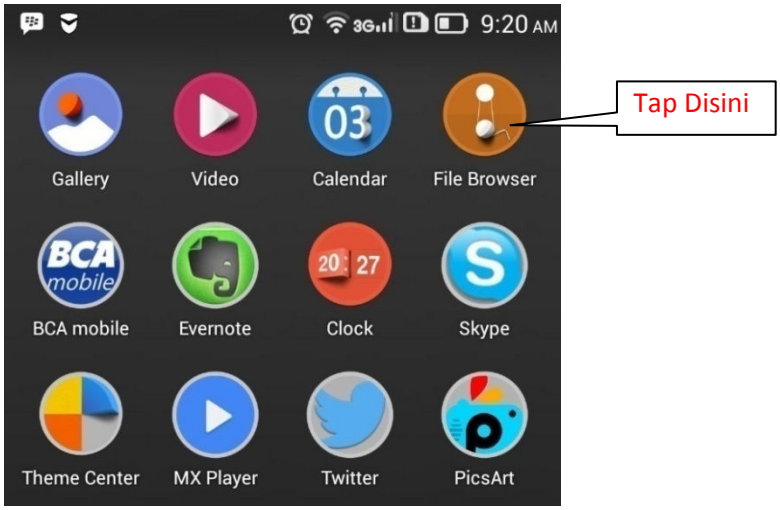


g. Setelah itu buka folder “memory card” perangkat Android anda dan tempel (paste) disana.

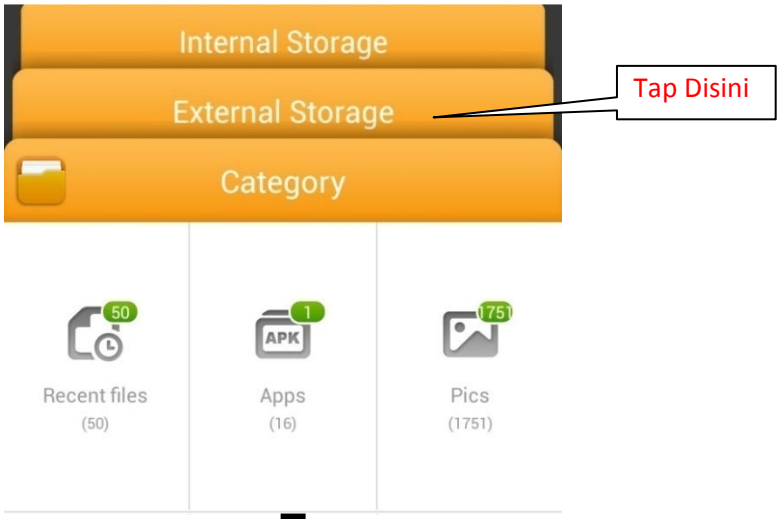


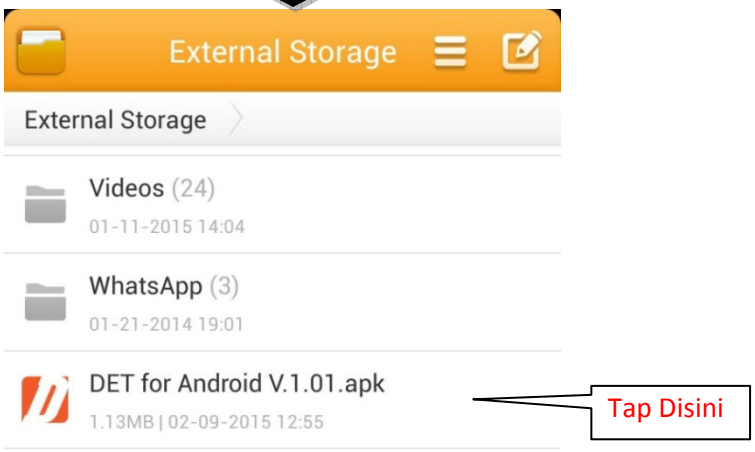
h. Putuskan koneksi perangkat Android Anda dengan komputer.

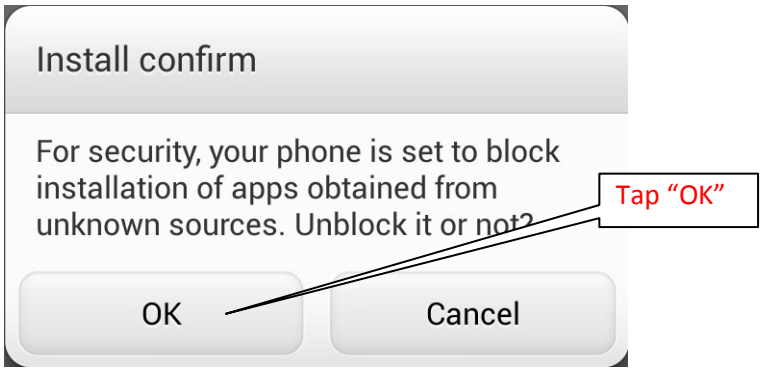
i. Buka File Explorer / File Browser di perangkat Android Anda

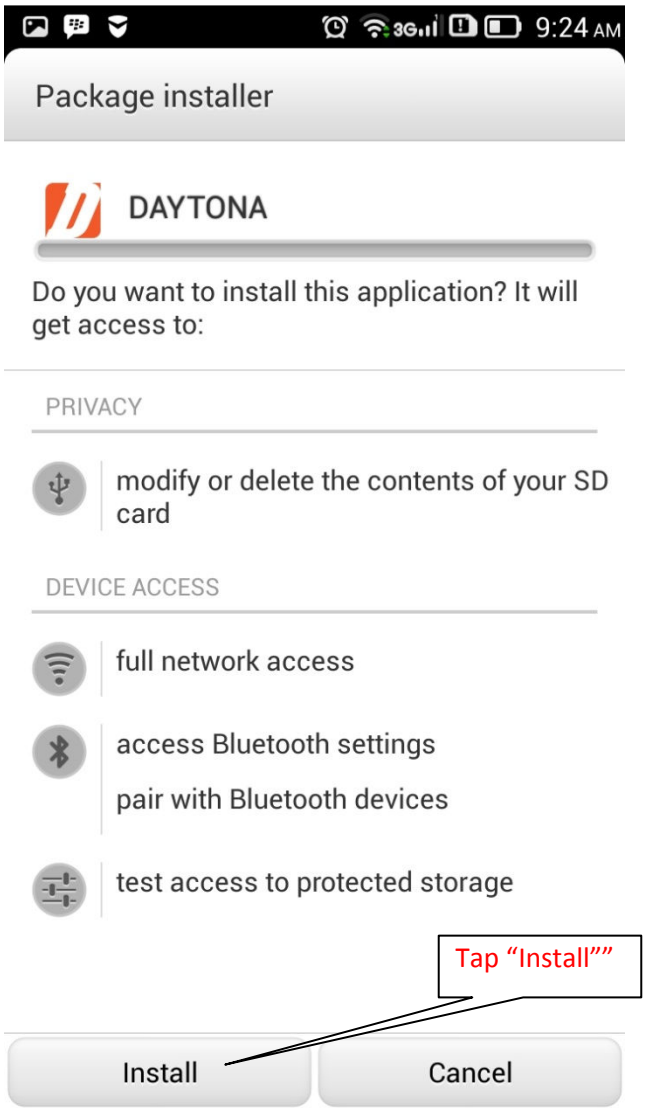


Pilih External Storage / SD Card






Install confirm
For security, your phone is set to block installation of apps obtained from unknown sources. Unblock it or not?
Tap “OK”
OK
Cancel



Tap “DONE” ketika selesai dan aplikasi sudah terpasang di perangkat Android Anda.

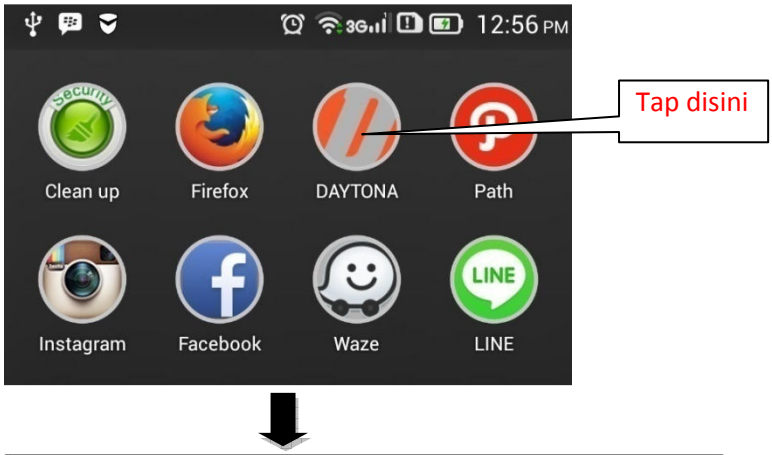
2. Menghubungkan ECU Dengan Perangkat Android

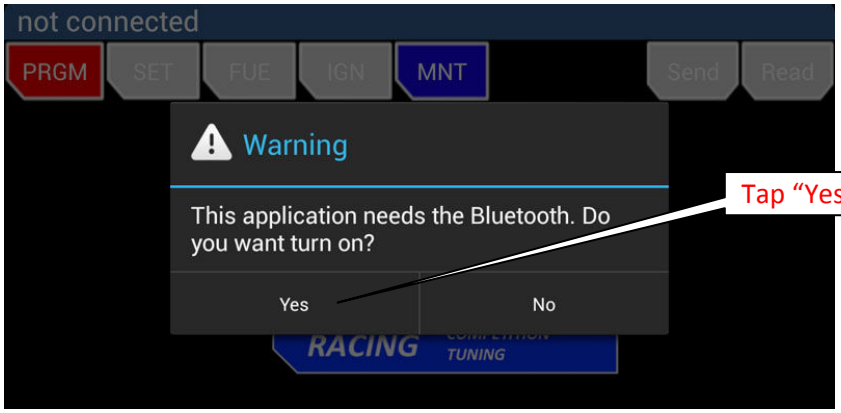
2.1 Lepaskan ECU standar asli sepeda motor dan gantikan dengan Daytona ECU
2.2 Tancapkan “Bluetooth Module” ke ECU

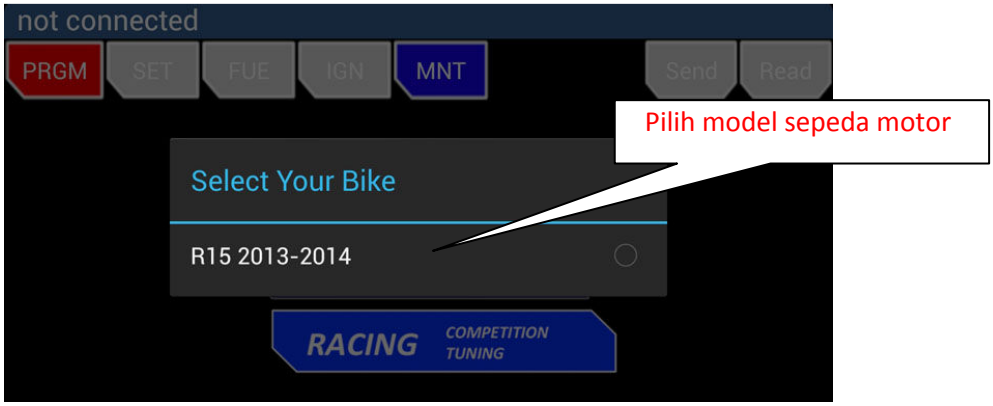
2.3 Putar kunci kontak ke posisi “ON”

⚠ ***JANGAN MENJALANKAN MESIN ketika ECU TUNER sedang digunakan. Kesalahan yang tidak diharapkan bisa muncul dan menimbulkan masalah pada software.***

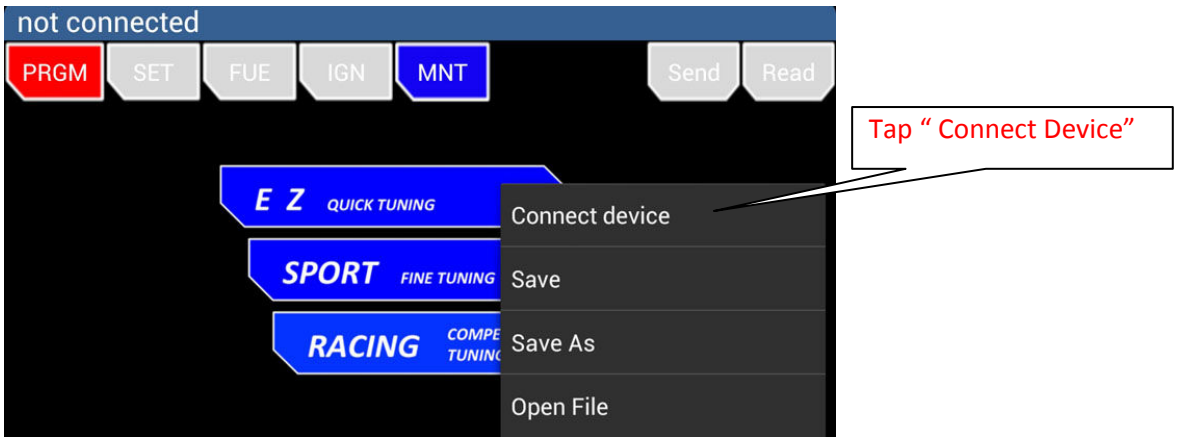
2.4 Buka aplikasi Daytona ECU Tuner pada perangkat Android



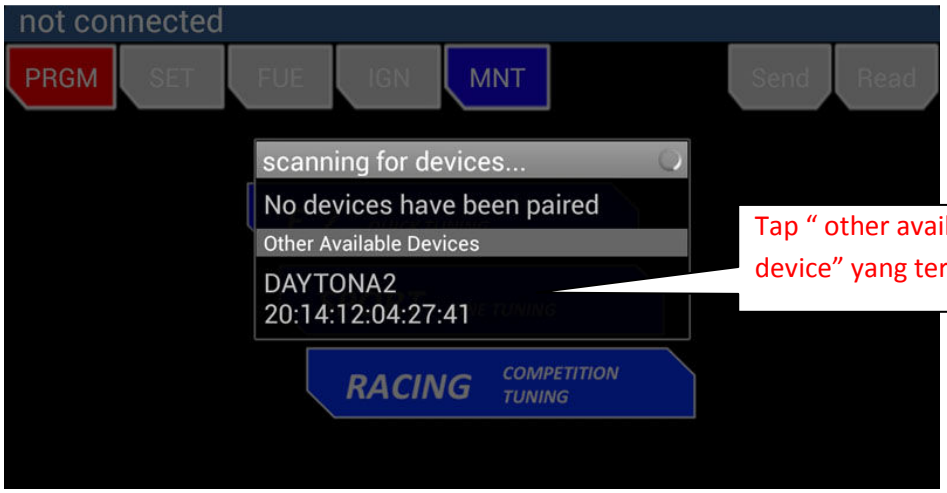




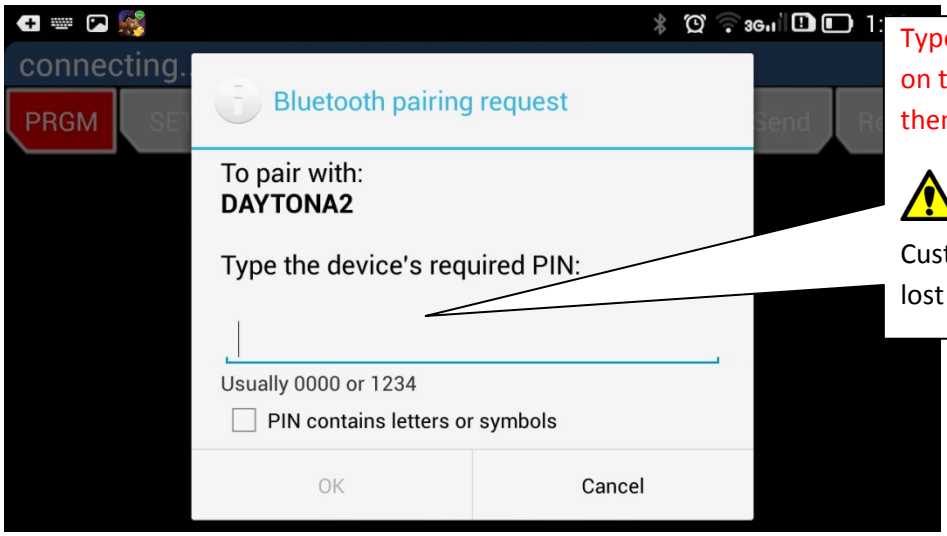
Tekan tombol “Menu” pada perangkat Android Anda



Tap " Scan for Devices"

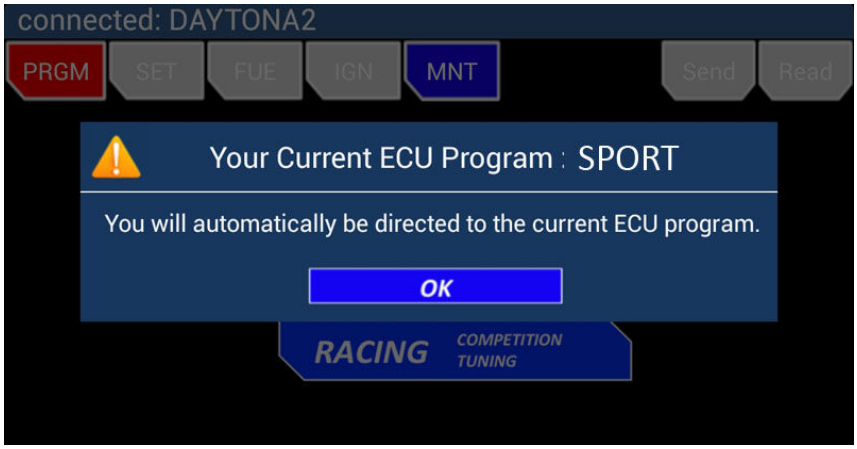


Tap " other available device" yang terdeteksi



Type the 4-digit PIN written on the ECU package label, then tap "OK"

⚠ Contact DAYTONA Customer Service if PIN is lost or forgotten.



Jika sudah terhubung dengan ECU, aplikasi akan secara otomatis mendeteksi mode yang ada didalam ECU, dan masuk ke mode tersebut.

⚠ ***Jika pop-up diatas tidak muncul di layar, kemungkinan koneksi Bluetooth gagal. Untuk menghubungkan kembali, lakukan langkah berikut;***

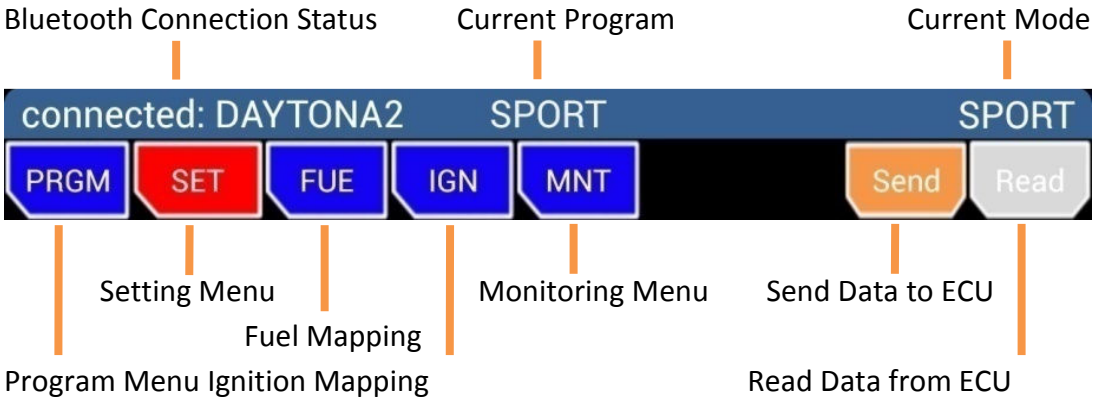
1. ***Tutup aplikasi***
2. ***Putar kunci kontak "OFF", dan nyalakan kembali.***
3. ***Buka software kembali sesuai langkah nomor 2.4.***

Untuk berpindah ke Menu Utama tap "PRGM" lalu tap "CONTINUE"

⚠ **Sebelum menggunakan ECU TUNER, baca dengan seksama manual yang disediakan di dalam CD.**

⚠ ***Blutooth Module harus dilepaskan dari ECU ketika selesai melakukan setting. Jangan menggunakan sepedamotor ketika module masih terpasang.***

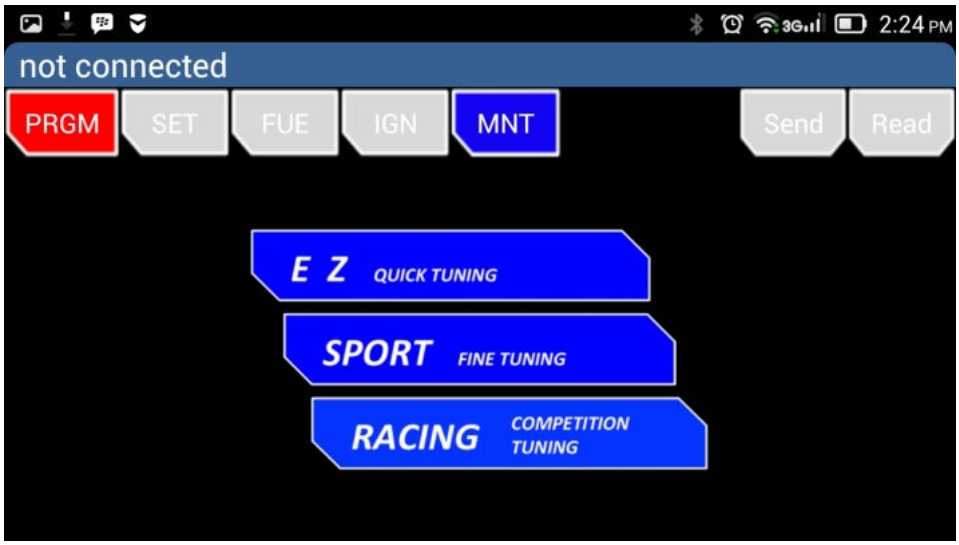
3. Pengenalan Tampilan



Menu berwarna merah menunjukkan posisi anda saat ini.

Menu/kolom/jendela yang berwarna oranye/merah, menunjukkan bahwa icon aktif dan yang berwarna abu-abu tidak aktif. Tombol "READ" baru akan aktif (berwarna oranye) jika data tersebut sudah pernah dikirim ke ECU.

4. Menu Program



Pilih salah satu program dibawah ini ; EZ, SPORT and RACING

4.1 EZ

Ini adalah program "Tuning Cepat". Silahkan pilih 3 mode yang disediakan ;

a ECO

Supply bensin sama atau sedikit lebih irit dari standar.

b LITE TUNE

Supply bensin di rancang untuk modifikasi knalpot racing

c POWER TUNE

Supply bensin dirancang untuk modifikasi piston, air-cleaner dan knalpot.

4.2 SPORT

Ini adalah program tuning sederhana menggunakan tabel 4 x 4

a Range perubahan bahan bakar : -5 sampai +7

b Range perubahan timing bahan bakar : -5 sampai +5

4.3 RACING

Ini adalah program setting untuk racing, terdiri dari RACING 10 dan RACING 30.

a RACING 10 : 4X10 kolom

Range perubahan bahan bakar : -20 sampai +20

Range perubahan timing bahan bakar : -10 sampai +10

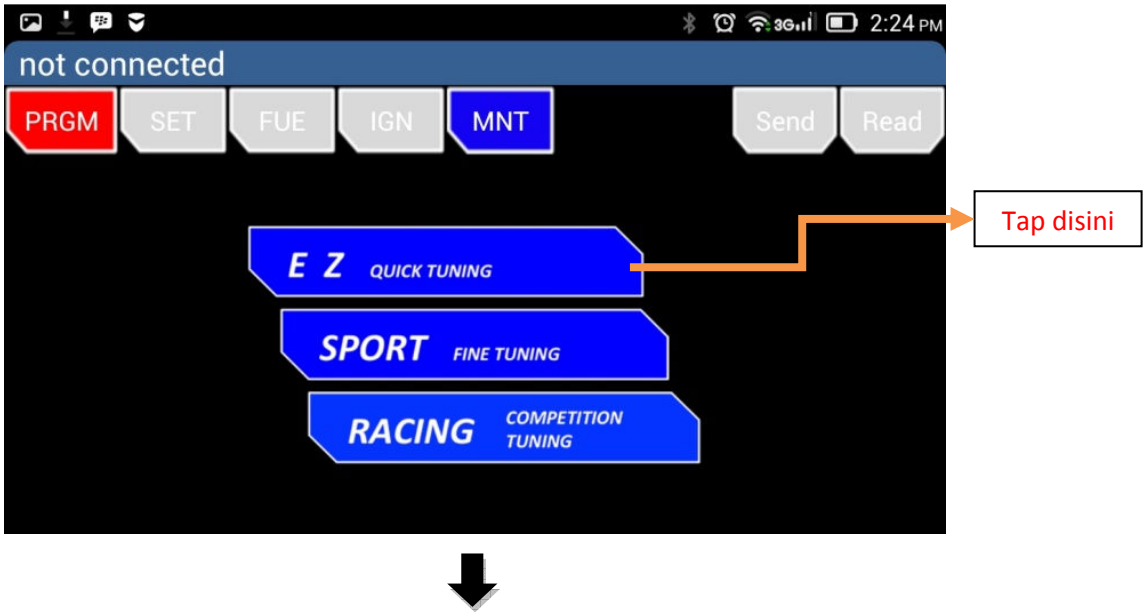
b RACING 30 : 4X30 kolom

Range perubahan bahan bakar : -20 sampai +20

Range perubahan timing bahan bakar : -10 sampai +10

5 EZ Program

Pada Menu Program, tap“EZ”.



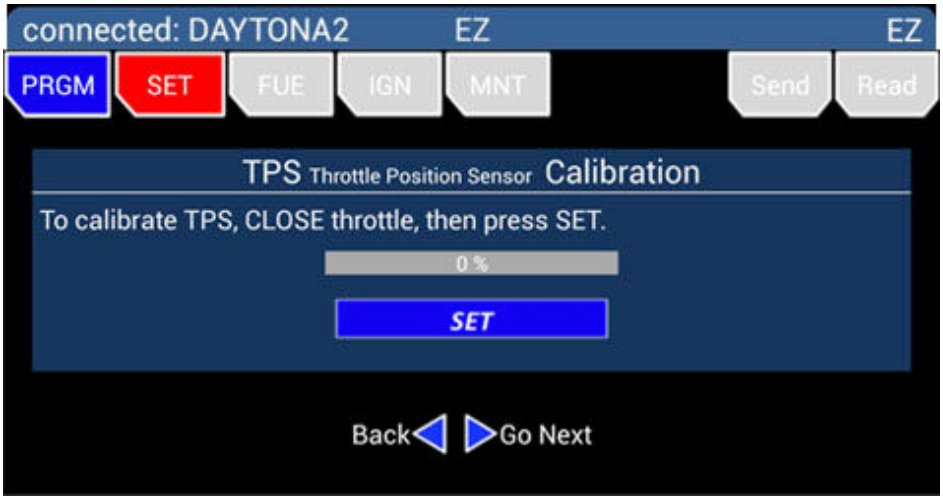
Secara otomatis akan masuk ke menu kalibrasi TPS

Agar ECU bekerja dengan baik, kalibrasi TPS diperlukan saat koneksi pertama kali.

Cara kalibrasi TPS;

a Putar konci kontak motor ke posisi “ON”

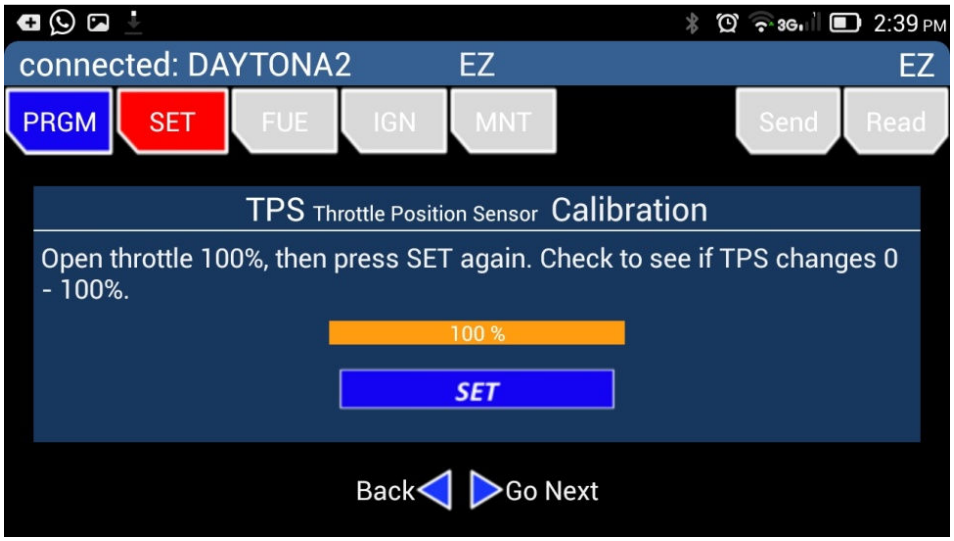
b Tutup putaran gas, lalu tap “SET” sesuai dengan anjuran gambar dibawah.



c Putar gas penuh (100%), dan tap"SET" kembali sesuai anjuran gambar dibawah.

d Untuk pengecekan, buka dan tutup putaran gas throttle untuk melihat posisi gas sudah menunjukkan 0% sampai 100% pada indicator berwarna oranye.

e Tap "Go Next" jika semua sudah ok.



Jika kalibrasi TPS sudah pernah dilakukan, anda tidak perlu melakukannya kembali, dan anda dapat melewati menu kalibrasi TPS ini dengan cara tap “GO Next”.

Jika koneksi Bluetooth terputus, koneksikan kembali dengan langkah dibawah ini ;

1. ***Tutup software***
2. ***Matikan kunci kontak dan putar ke “ON” kembali***

3. Buka kembali software sesuai petunjuk nomor 2.4.

Pilih dan tap salah satu dari 3 mode yang disediakan, ECO, LITE TUNE dan POWER TUNE, kemudian tap “OK” untuk konfirmasi.

Sekarang data sudah berhasil terkirim ke ECU.
Lepaskan bluetooth module, dan lakukan test-ride di lokasi tertutup dan aman sebelum digunakan.

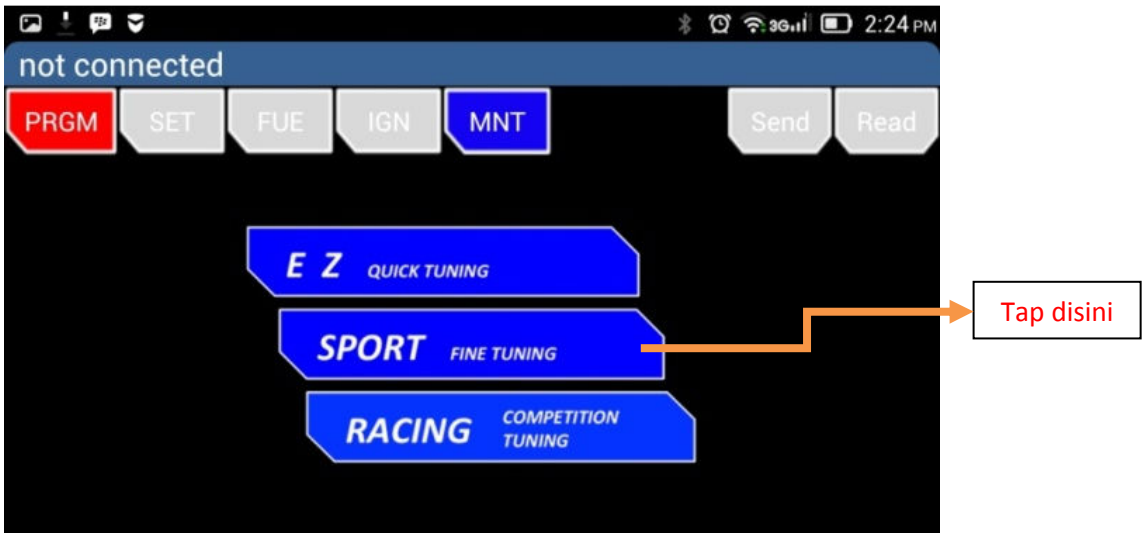
⚠ ***Bluetooth Module harus dilepaskan dari ECU setelah selesai melakukan setting. JANGAN biarkan Bluetooth modul terpasang saat dikendarai.***

⚠ ***JANGAN JALANKAN MESIN ketika ECU TUNER sedang digunakan. Kesalahan mungkin dapat muncul pada software dan mesin.***

6 SPORT Program

SPORT PROGRAM memungkinkan anda untuk melakukan setting bahan bakar dan timing pengapian dengan menggunakan table 4 x 4.

Pada menu Program, tap“SPORT”.



Secara otomatis akan masuk ke menu kalibrasi TPS.

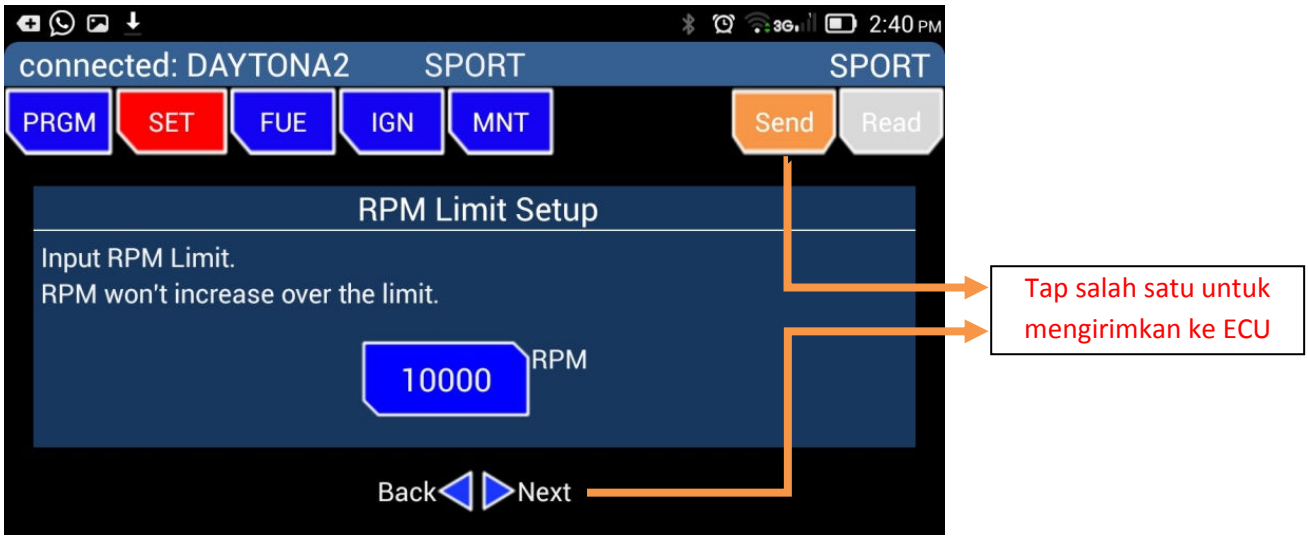
Kalibrasi TPS sesuai dengan petunjuk no #5 EZ Program pada manual ini.

6.1 Menu Setting

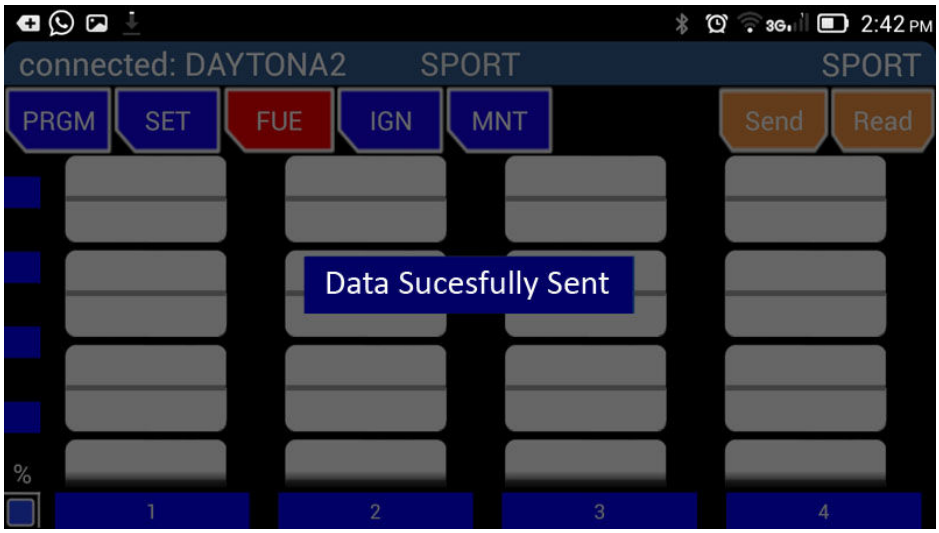
Setelah kalibrasi TPS, “RPM Limit Setup” akan muncul.

Tap nilai RPM untuk merubah, dan tap “SET”. Kemudian, tap “NEXT”atau“SEND” untuk konfirmasi.

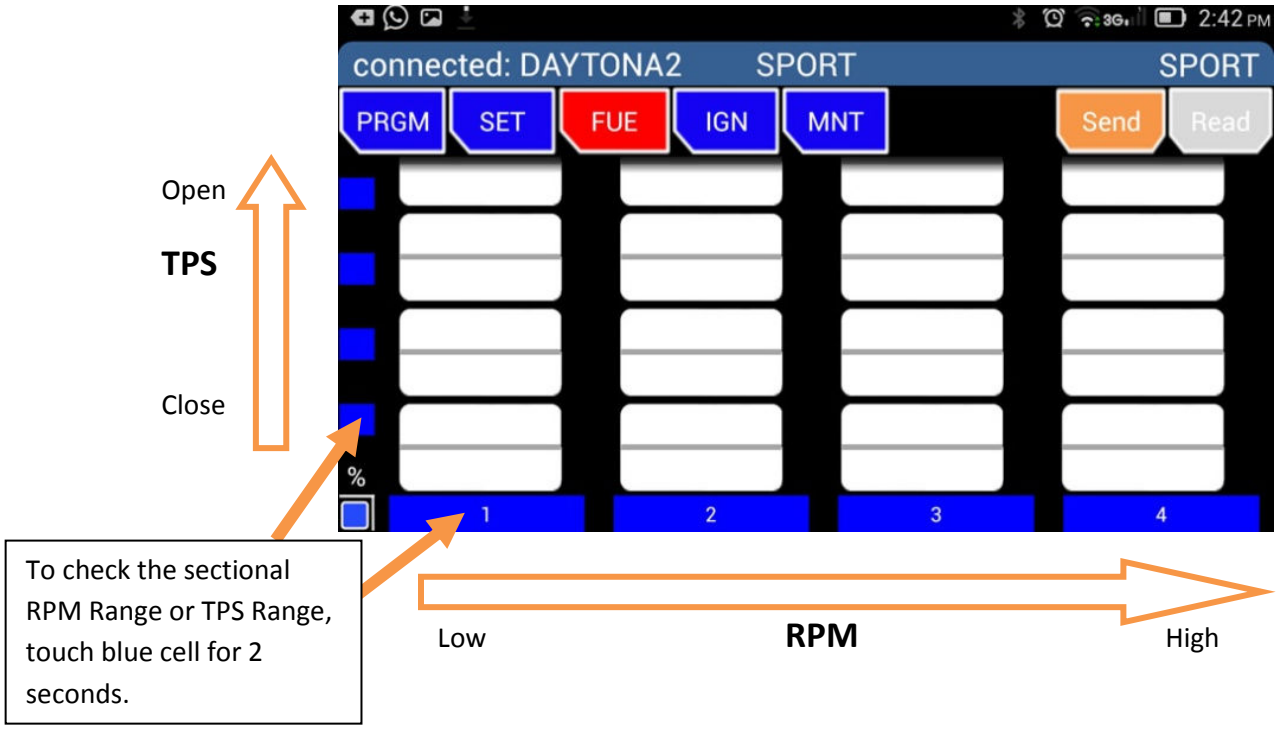
⚠ ***RPM range secara otomatis akan terbagi menjadi 4 sesuai dengan RPM limit yang Anda masukkan.***



Sekarang RPM Limit sudah terkirim ke ECU.



Anda secara otomatis akan diarahkan ke menu mapping bahan bakar (FUE).

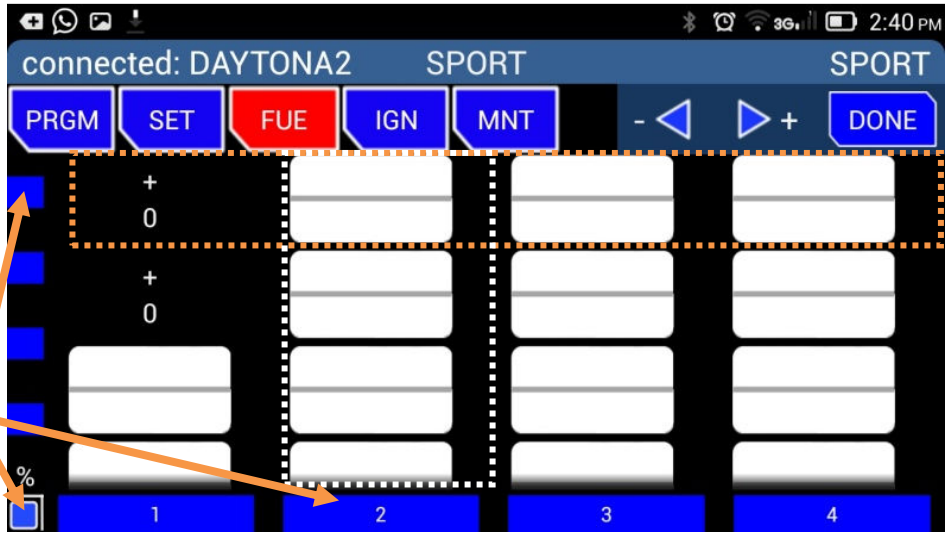


6.2 Fuel Mapping

Untuk memodifikasi map bahan bakar, tap kolom berwarna putih/biru dimana anda ingin merubah debit bahan bakar.
Jika kolom berwarna biru di tap, semua baris / kolom pada yang berwarna putih akan terpilih dan akan menunjukkan angka. Untuk kembali, tap kolom yang sama.

Jika tap pada kolom biru, maka semua kolom berwarna putih yang sebaris atau satu kolom akan menunjukkan angka.

Jika tap pada kolom biru yang ada dipojok, maka semua kolom putih akan berubah menjadi angka.



Jika suplai bahan bakar terlalu miskin, bisa menyebabkan kerusakan pada mesin . Disarankan memprogram bahan bakar dari campuran yang kaya terlebih dahulu sambil melakukan pengecekan AFR(Air Fuel Ratio). AFR yang ideal adalah .5 - 12.9.

Gunakan icon

diatas kanan untuk merubah debit bahan bakar.

Range perubahan adalah -5 to +7.

Untuk menambah debit, tap

.

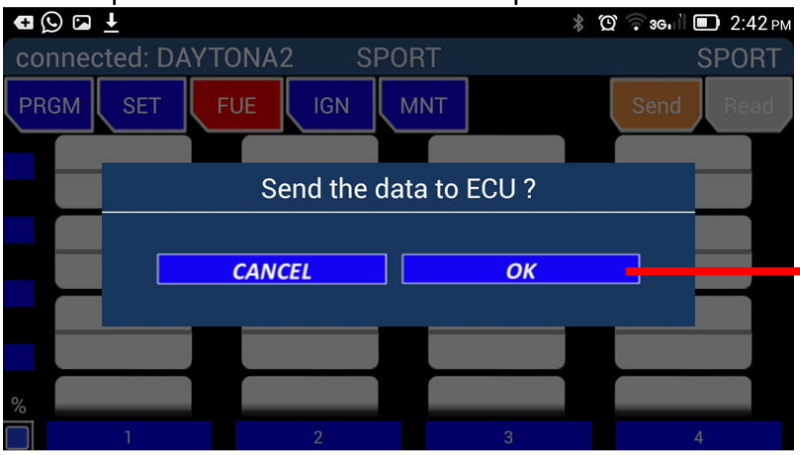
Untuk mengurangi debit, tap

.

Setelah selesai, tap

Untuk mengirimkan map ke ECU, tap

Lalu tampilan dibawah akan muncul. Tap “OK” untuk konfirmasi.



Tap “OK”

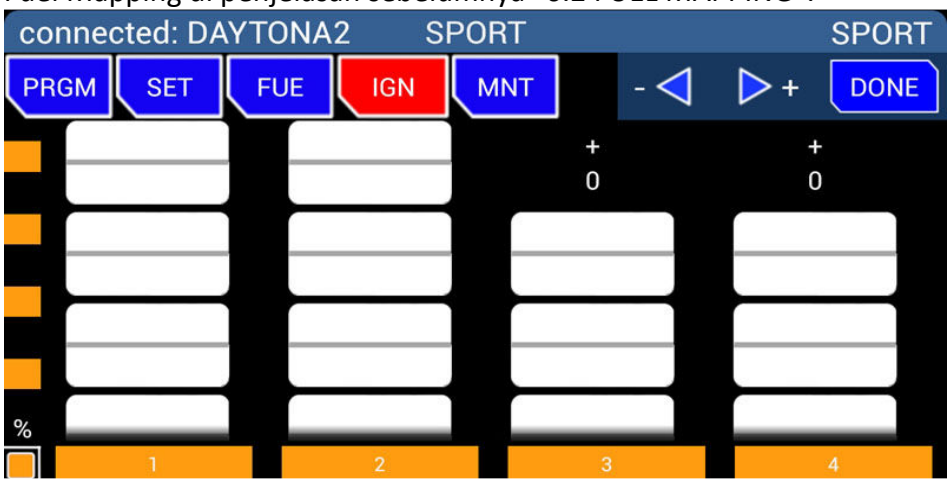
⚠ ***Jika pesan ini tidak muncul, maka koneksi bluetooth tidak berhasil. Untuk menghubungkan kembali, lakukan langkah berikut ;***

1. Tutup software
2. Putar kunci kontak "OFF", dan nyalakan kembali.
3. Buka software kembali sesuai langkah nomor 2.4.

6.3 Ignition Mapping

Tap

untuk masuk ke menu mapping timing pengapian
Untuk memodifikasi timing, tap satu atau lebih kolom berwarna oranye/putih seperti pada Fuel Mapping di penjelasan sebelumnya "6.2 FUEL MAPPING".



Gunakan ikon

pada kanan atas untuk memajukan atau memundurkan timing.

⚠ ***Satu nilai yang ditambah/dikurangi berarti satu derajat timing yang diubah.***

Untuk memajukan, tambah nilai dengan tap

.

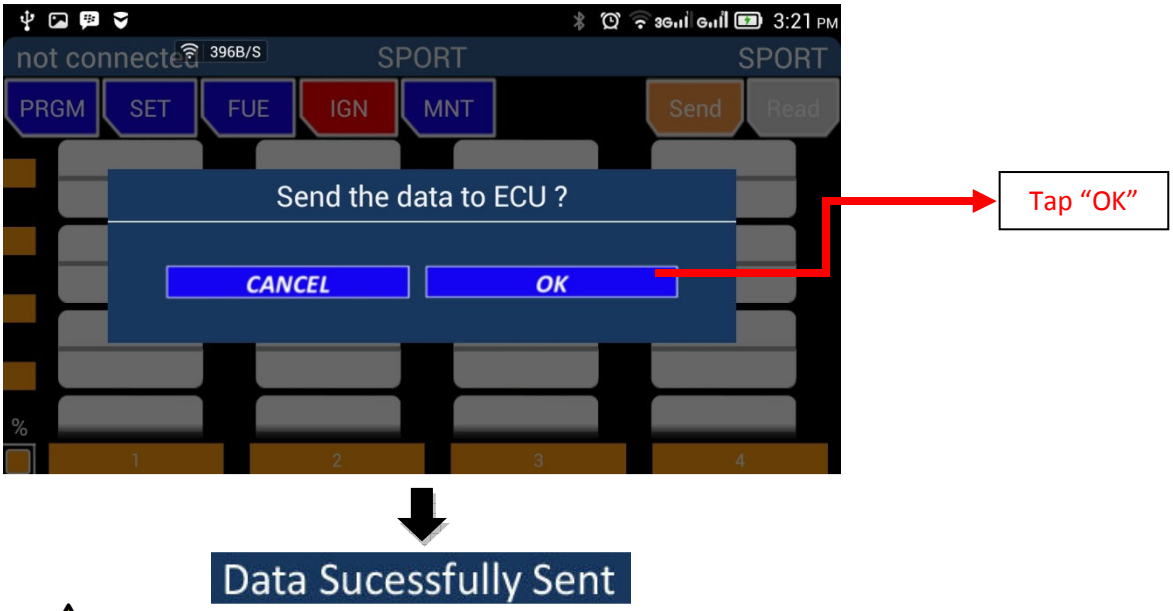
Untuk memundurkan, kurangi nilai dengan tap

.

Setelah selesai, tap

Untuk mengirimkan map tersebut ke ECU, tap

Lalu tampilan dibawah akan muncul. Tap "OK" untuk konfirmasi.



Jika pesan ini tidak muncul, maka koneksi bluetooth tidak berhasil. Untuk menghubungkan kembali, lakukan langkah berikut ;

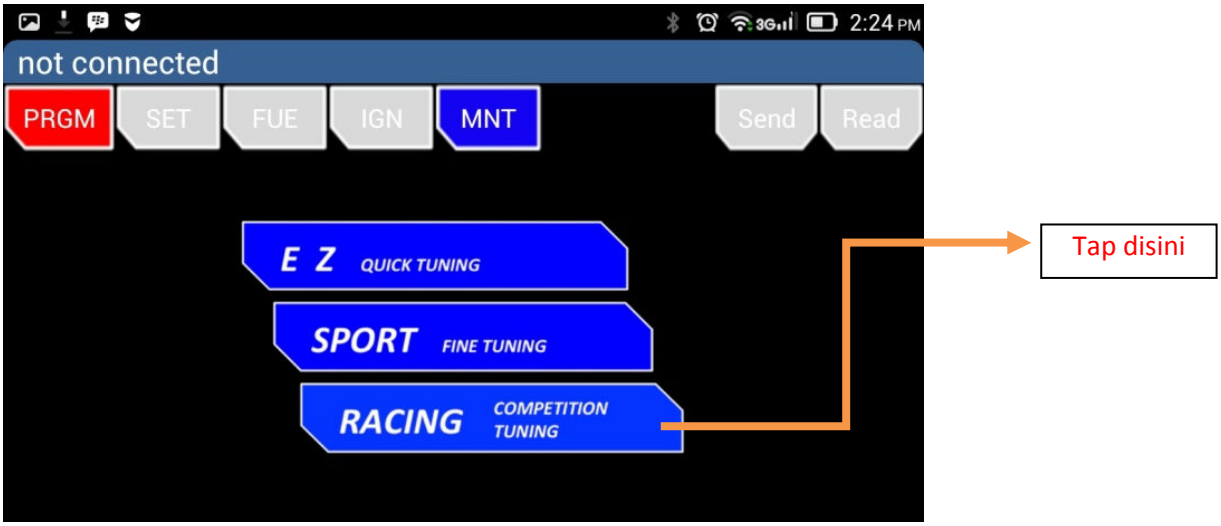
1. Tutup software
2. Putar kunci kontak “OFF”, dan nyalakan kembali.
3. Buka software kembali sesuai langkah nomor 2.4.

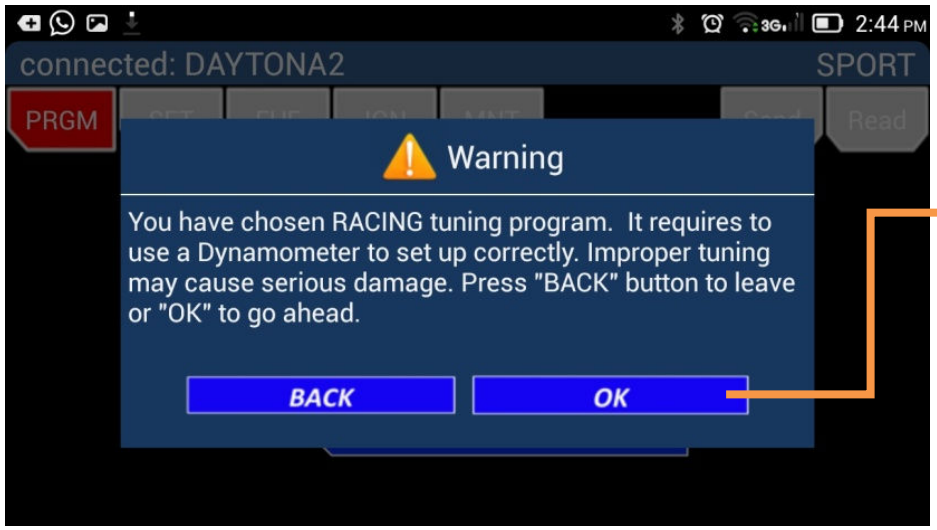
7. RACING PROGRAM

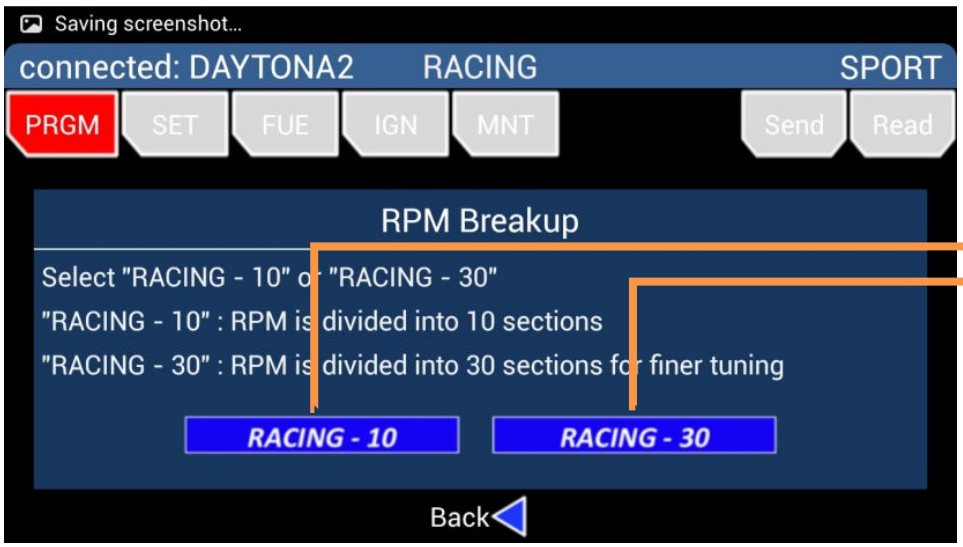
RACING PROGRAM memungkinkan anda melalukan mapping dengan lebih akurat.

Dibutuhkan sebuah dynamometer untuk melakukan mapping program RACING. Diskusikan dengan mekanik lebih lanjut.

Pada menu program,, tap“RACING”.



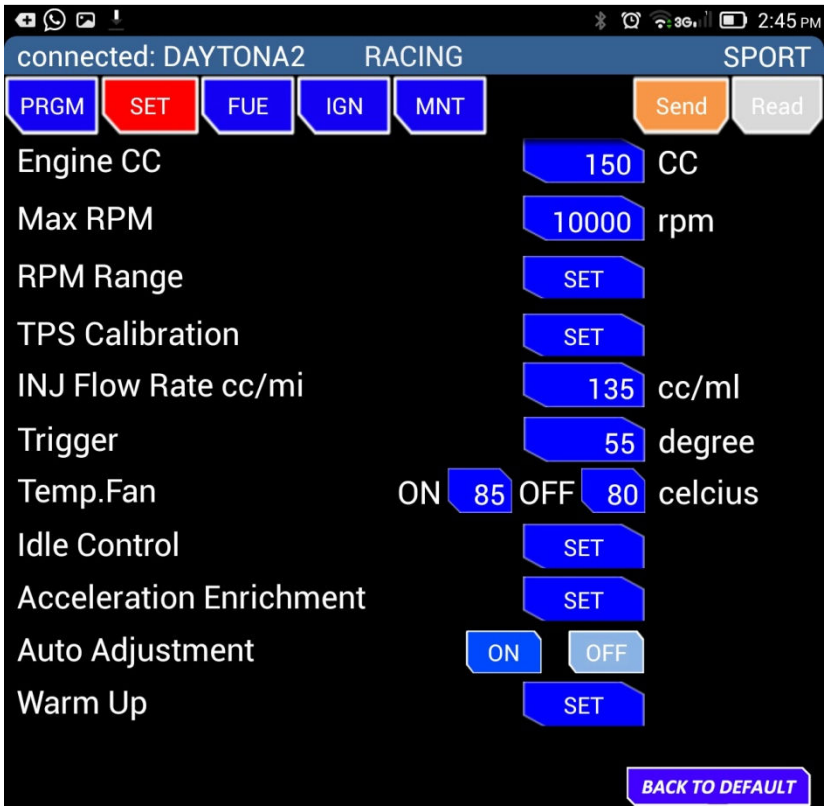

2:44 PM
connected: DAYTONA2
SPORT
PRGM
Read
Warning
You have chosen RACING tuning program. It requires to use a Dynamometer to set up correctly. Improper tuning may cause serious damage. Press "BACK" button to leave or "OK" to go ahead.
BACK
OK
Tap disini


Saving screenshot...
connected: DAYTONA2 RACING SPORT
PRGM
SET
FUE
IGN
MNT
Send
Read
RPM Breakup
Select "RACING - 10" or "RACING - 30"
"RACING - 10" : RPM is divided into 10 sections
"RACING - 30" : RPM is divided into 30 sections for finer tuning
RACING - 10
RACING - 30
Back
Tap salah satu
RACING 10 atau
RACING 30

connected: DAYTONA2 RACING SPORT
You have chosen
RACING - 10
BACK
OK
Next
connected: DAYTONA2 RACING RACING-10
You have chosen
RACING - 30
BACK
OK
Next
Tap disini

Setelah konfirmasi “OK”, Anda akan otomatis masuk ke menu “setting”

7.1 Setting Menu



Engine CC

Nilai kapasitas mesin (cc/min). Nilai kapasitas mesin ini akan memudahkan kita, ketika kita melakukan *bore up*. Mapping akan di konversi secara otomatis menyamai kebutuhan motor *bore up*, sehingga kita tidak perlu melakukan setting dari awal lagi. Tapi tetap harus melalukan mapping agar mapping benar-benar tepat.

Max RPM

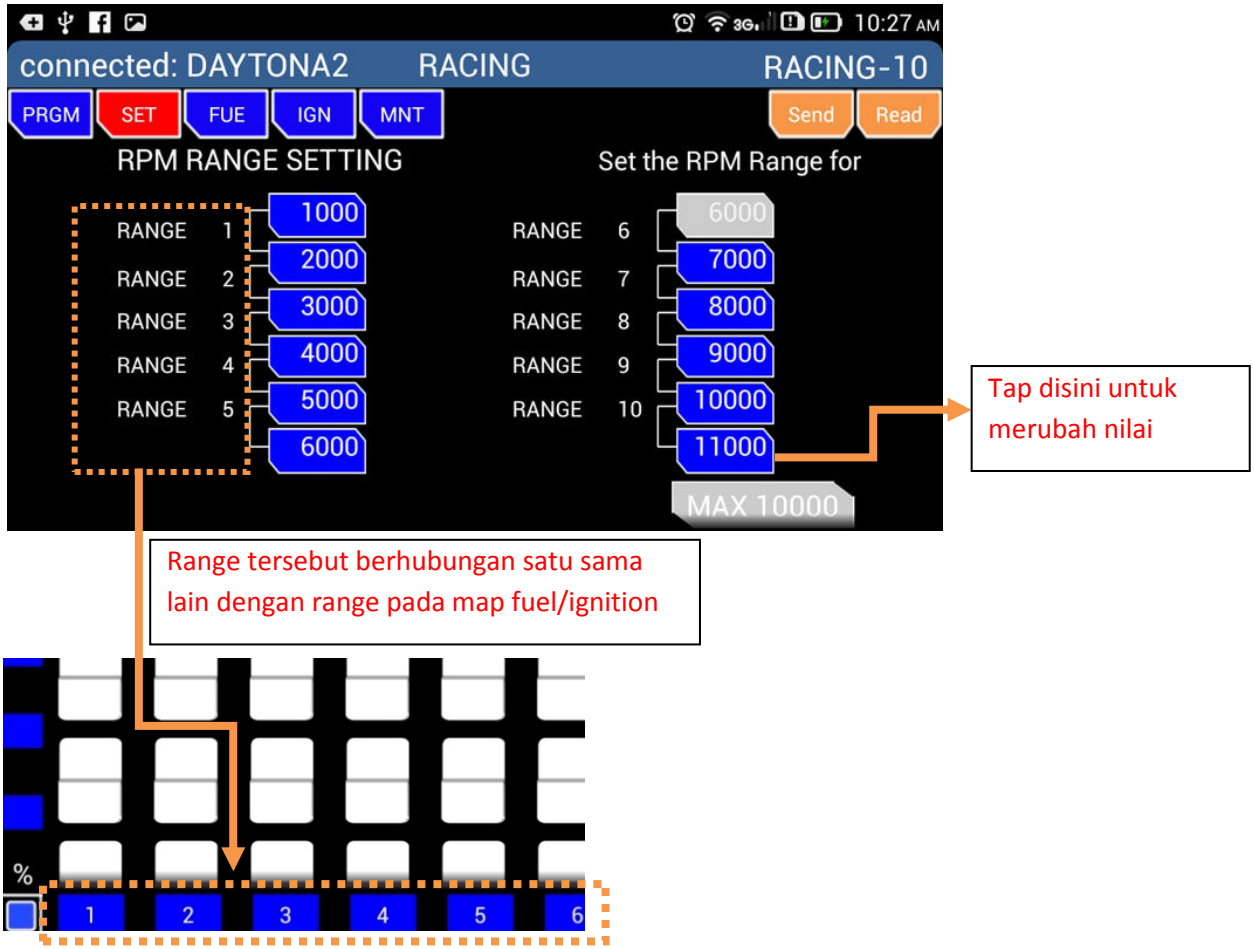
RPM Limiter (pembatasan pada RPM tertentu)

⚠ ***Mesin bisa saja rusak jika limit yang dimasukkan lebih tinggi dari standar.***

RPM Range

pada RACING PROGREM, RPM Range dapat dimodifikasi agar setting lebih akurat.
Tap “SET” untuk masuk ke menu setting, dan tampilan dibawah akan muncul.
Untuk memodifikasi nilai, tap kolom berwarna biru.

Setelah selesai, tap Send hingga modifikasi terkirim kedalam ECU.



RPM range akan mempengaruhi FUEL MAP dan IGNITION Map.

TPS Calibration

Untuk Kalibrasi TPS. Lihat penjelasan nomor #5 EZ Program.

INJ Flow Rate (cc/min)

Kapasitas injektor (cc/min). Nilai kapasitas *injector* ini akan memudahkan kita, ketika kita melakukan pengantian *injector* yang lebih besar. Mapping akan di konversi secara otomatis menyamai kebutuhan *injecktor* yang baru sehingga kita tidak perlu melakukan setting dari awal lagi. Namun mapping tetap harus dilalukan agar lebih tepat.

Trigger Angle

Untuk merubah referensi derajat timing pengapian. Ini akan berguna ketika ECU digunakan pada mesin yang berbeda daripada mesin yang disarankan.

Temp. Fan On/Off

Temperatur ketika kipas radiator menyala dan mati (kalau ada)

Idle Control

Memprogram "*Idle Control*" akan mengontrol dan menyetabilkan RPM saat idle. (Zero TPS / TPS 0%).

Map ini efektif pada TPS o% atau pada saat gas ditutup.

Tap "SET" untuk masuk ke setting, tampilan dibawah akan muncul.

Untuk merubah nilai, tap kolom biru, kemudian tap SET".

Setelah selesai, tap Send untuk mengirimkan data yang dirubah ke ECU.

Acceleration Enrichment

Untuk mengontrol suplai bahan bakar saat akselerasi dan deselerasi.

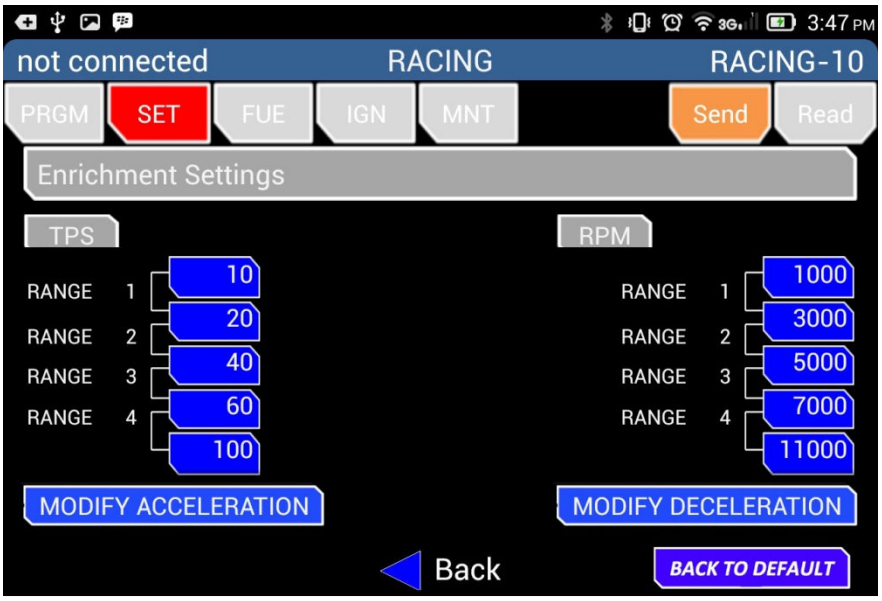
Tap "SET" untuk masuk ke menu setting, dan tampilan dibawah akan muncul.

Pada menu ini modifikasi TPS/RPM Range bisa dilakukan.

Untuk merubah nilai, tap kolom biru, dan tap SET".

Setelah selesai, tap Send untuk mengirimkan data tersebut ke ECU

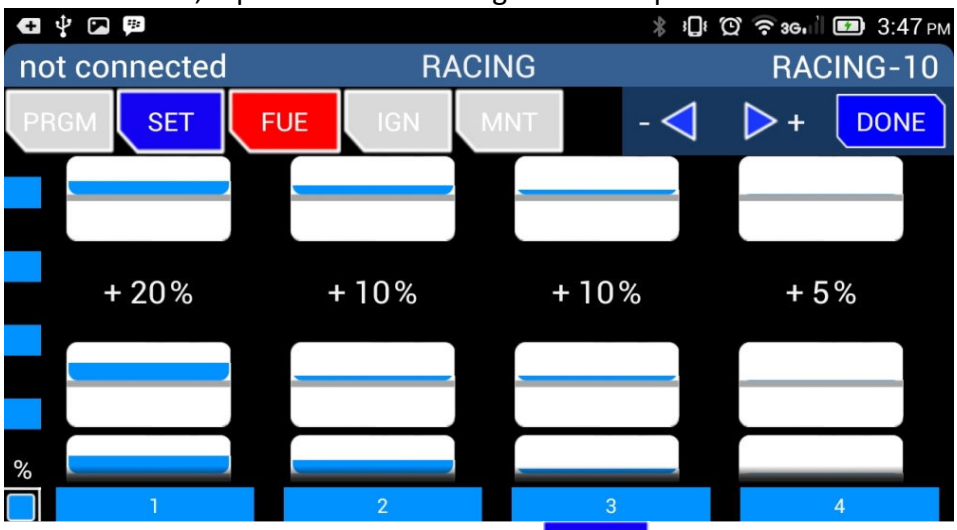
Untuk memodifikasi map akselerasi, tap "MODIFY ACCELERATION"



Modifikasi TPS Range dan RPM Range akan berpengaruh pada map akselerasi dan deselerasi.

Tap kolom untuk merubah nilai, nilai yang dibaca adalah berupa persen %.

Setelah selesai, tap Send untuk mengirimkan map tersebut ke ECU.

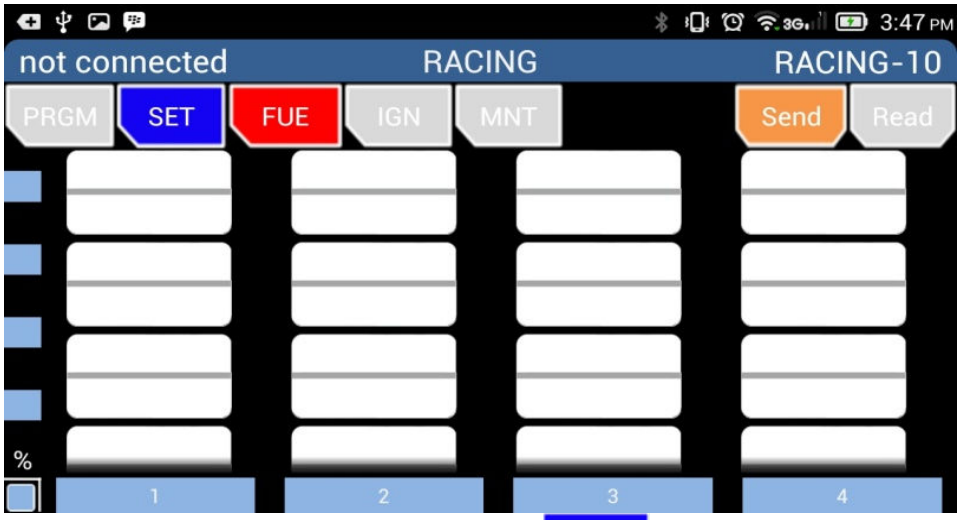


Untuk kembali ke menu sebelumnya, tap SET

Untuk memodifikasi map deselerasi, tap “MODIFY DECELERATION”.

Tap kolom untuk merunah nilai, Nilai berarti jumlah % bahan bakar yang dikurangi.

Setelah selesai, tap Send untuk mengirimkan data tersebut ke ECU.



Untuk kembali ke menu sebelumnya, tap SET

Auto Adjustment

Auto adjustment mempengaruhi penambahan bahan bakar berdasarkan suhu udara di intake. Jika "ON" maka penyetelan otomatis akan menyala dan jika memilih "OFF", maka penyetelan otomatis akan berhenti.

Warm Up

Memprogram *Warm Up Enrichment* akan mengontrol dan menyetabilkan RPM saat mesin dingin. Ketika mesin masih dingin, lebih banyak bahan bakar yang diperlukan.

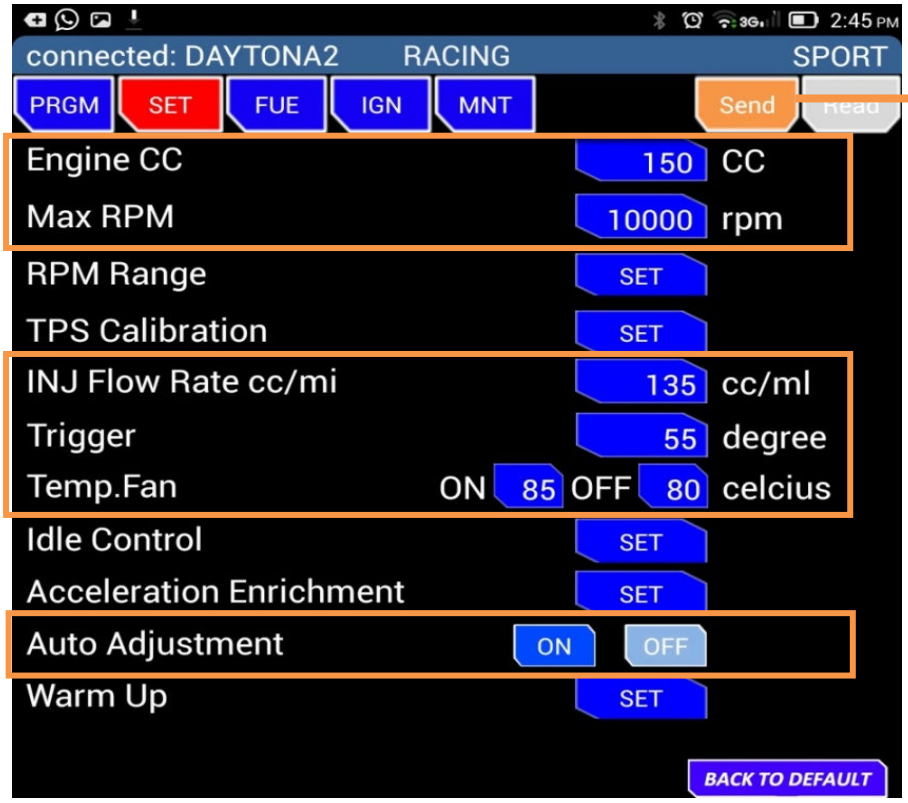
Ada tiga parameter yang bisa dirubah, Temperatur, Enrichment % and FID %. Dengan merubah nilai pada paramenter tersebut, program ini dapat mengontrol seberapa banyak bahan bakar yang disuplai pada temperature tertentu, dan juga berapa banyak udara yang disuplai ke mesin pada temperature tersebut.

Setelah selesai, tap Send untuk mengirimkan data tersebut ke ECU.

Cara mengirimkan setting data.

Setting data harus dikirimkan ke ECU jika dilakukan perubahan, caranya adalah;

Tap Send untuk mengirimkan semua setting umum ke ECU.



Tap disini untuk mengirimkan data setting ke ECU, tapi hanya data yang dilingkari oranye saja yang akan terkirim

Untuk mengirimkan yang lainnya, mohon lihat penjelasan dibawah.

RPM Range : Tap "SET" kemudian tap Send.

TPS Calibration : Tap "SET" kemudian tap Send after calibration.

Idle Control : Tap "SET" kemudian tap Send.

Acceleration Enrichment : Tap "SET" kemudian tap Send, then ;

1. Tap "MODIFY ACCELERATION" kemudian tap Send, tap SET to go back.
2. Tap "MODIFY DECELERATION" kemudian tap Send, tap SET twice to go back to "SETTING MENU".

Warm Up : Tap "SET" kemudian tap Send.

⚠ Pastikan semua langkah diatas, agar semua parameter setting terkirim ke ECU

⚠ Jika salah satu langkah diatas tidak dilakukan, kemungkinan ECU tidak akan berfungsi dengan sempurna.

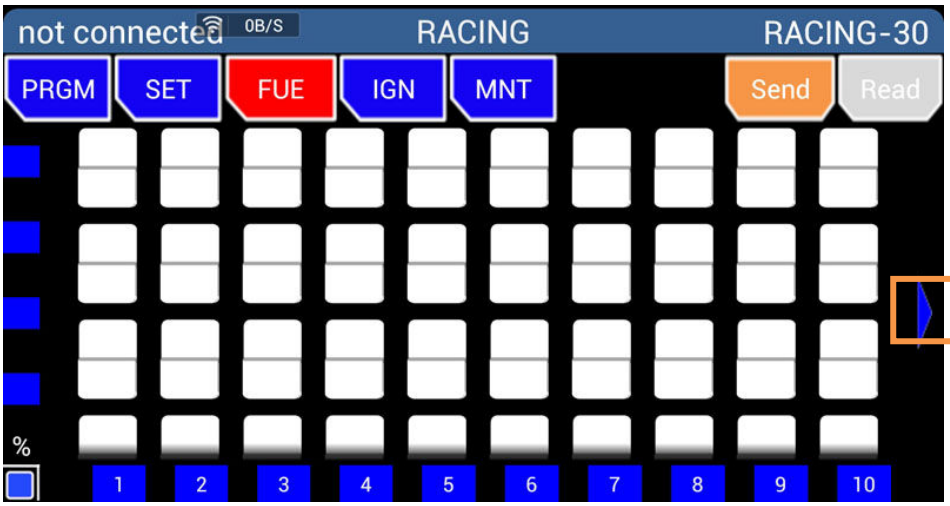
7.2 Fuel Mapping and Ignition Mapping.

7.2.1 Fuel Mapping

Tap FUE untuk masuk ke map bahan bakar

Untuk memodifikasi map bahan bakar, tap tap satu atau lebih kolom biru atau putih seperti pada penjelasan SPORT PROGRM nomor 6.2 Fuel Mapping

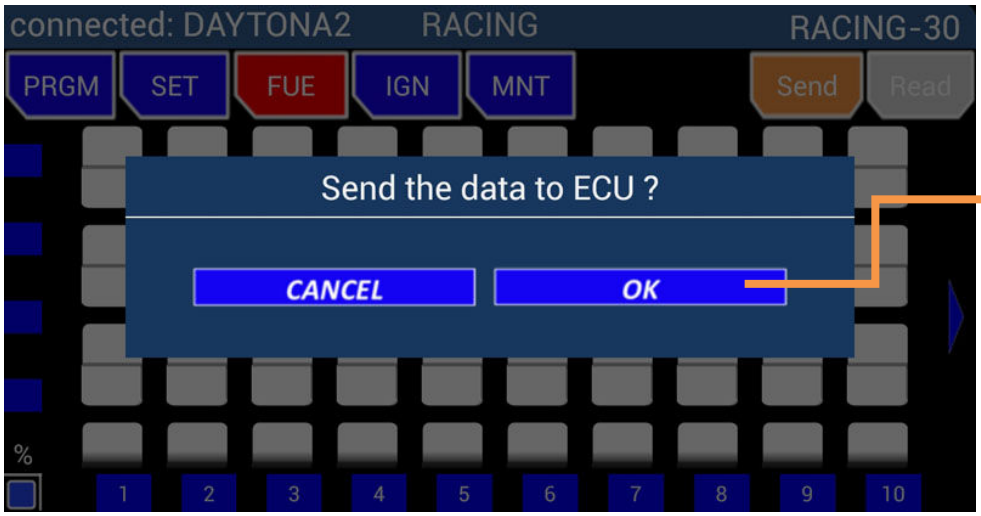
Setelah selesai, tap Send untuk mengirimkan map tersebut ke ECU



Tap panah untuk melihat halaman berikutnya (RACING 30 SAJA).

⚠ ***Jika suplai bahan bakar terlalu miskin, bisa menyebabkan kerusakan pada mesin. Disarankan memprogram bahan bakar dari campuran yang kaya terlebih dahulu sambil melakukan pengecekan AFR(Air Fuel Ratio). AFR yang ideal adalah .5 - 12.9.***

Lalu tampilan dibawah akan muncul. Tap “OK” untuk konfirmasi.



Tap “OK”

⚠ Jika pesan ini tidak muncul, mungkin koneksi Bluetooth terputus. Untuk menghubungkan kembali, lakukan langkah berikut ;

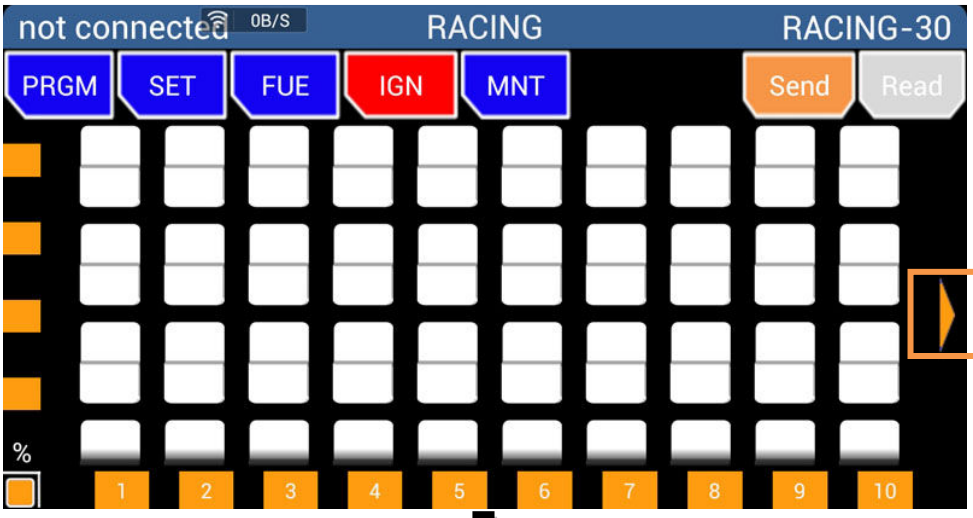
1. Tutup software
2. Putar kunci kontak “OFF”, dan nyalakan kembali.
3. Buka software kembali sesuai langkah nomor 2.4.

7.2.2 Ignition Mapping

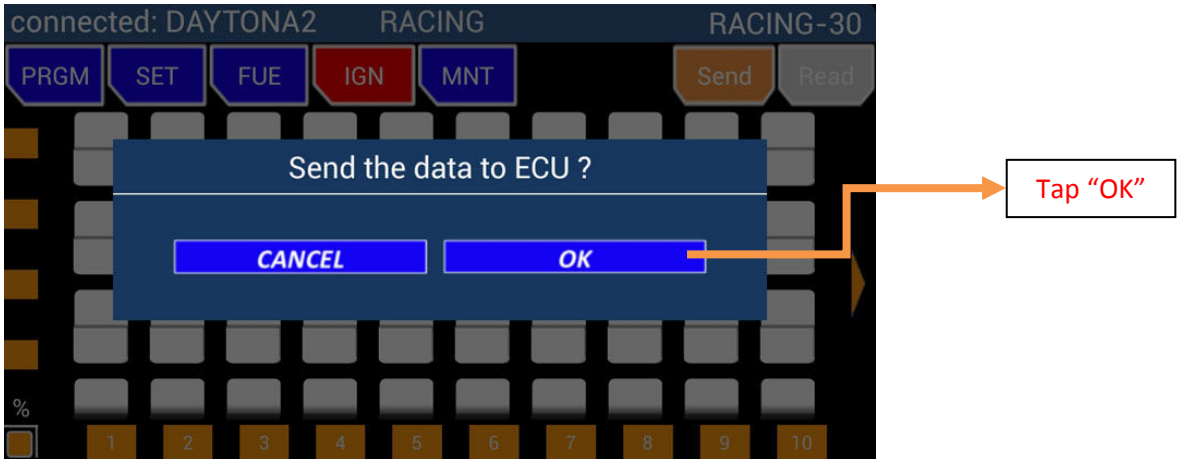
Tap IGN untuk masuk ke map ignition.

Untuk memodifikasi map, tap satu atau lebih kolom oranye/putih seperti pada SPORT PROGRM pada penjelasan sebelumnya nomor 6.2 FUEL MAPPING

Setelah selesai, tap Send untuk mengirimkan map tersebut ke ECU.



Lalu tampilan dibawah akan muncul. Tap “OK” untuk konfirmasi.

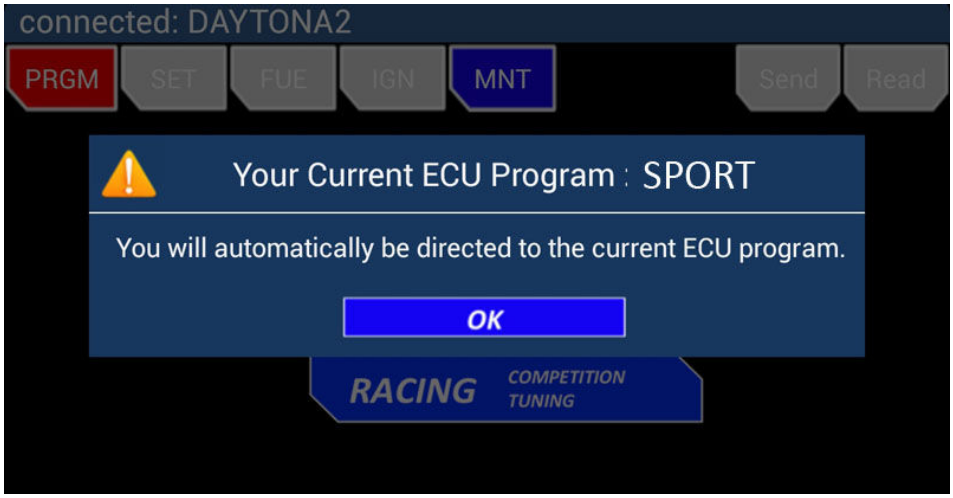


⚠ Jika pesan ini tidak muncul, maka koneksi bluetooth tidak berhasil. Untuk menghubungkan kembali, lakukan langkah berikut ;

1. Tutup software
2. Putar kunci kontak “OFF”, dan nyalakan kembali.
3. Buka software kembali sesuai langkah nomor 2.4.

8 Trouble Shooting

Ketika terhubung dengan ECU, pop-up berikut akan muncul;



Jika pesan ini tidak muncul, maka koneksi bluetooth tidak berhasil. Untuk menghubungkan kembali, lakukan langkah berikut ;

1. Tutup software
2. Putar kunci kontak “OFF”, dan nyalakan kembali.
3. Buka software kembali sesuai langkah nomor 2.4.

ATTENTION !!!

- ***DAYTONA ECU for Android is designed for RACING USE ONLY. It is highly recommended to have a professional mechanic operate and set up.***
- ***Improper tuning may cause a serious damage in the engine or in the bike. To set up properly, it is highly recommended to use a Dynamometer before test ride.***
- ***It is customer's own responsibility to use DAYTONA ECU for Android. The One-Year Limited Warranty is ONLY applied to DAYTONA ECU for Android and to NOTHING ELSE. Manufacturer is free of responsibility of any sort of damages or losses.***
- ***DO NOT RUN THE ENGINE while ECU TUNER is in use. Unexpected error may be caused and it may lead into software malfunction.***
- ***Be sure to perform test rides in a closed and safe area before use.***
- ***The Bluetooth Module MUST BE DISCONNECTED once the tuning is done. And DO NOT leave the Bluetooth Module connected with ECU while riding.***

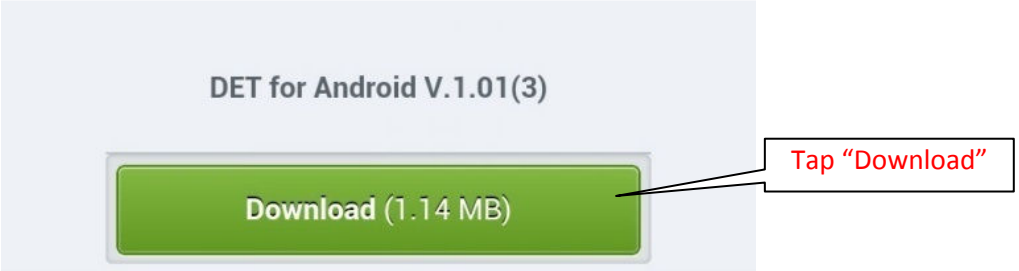
1. Installing Software into Android Device

1.1 Download the Software thru internet

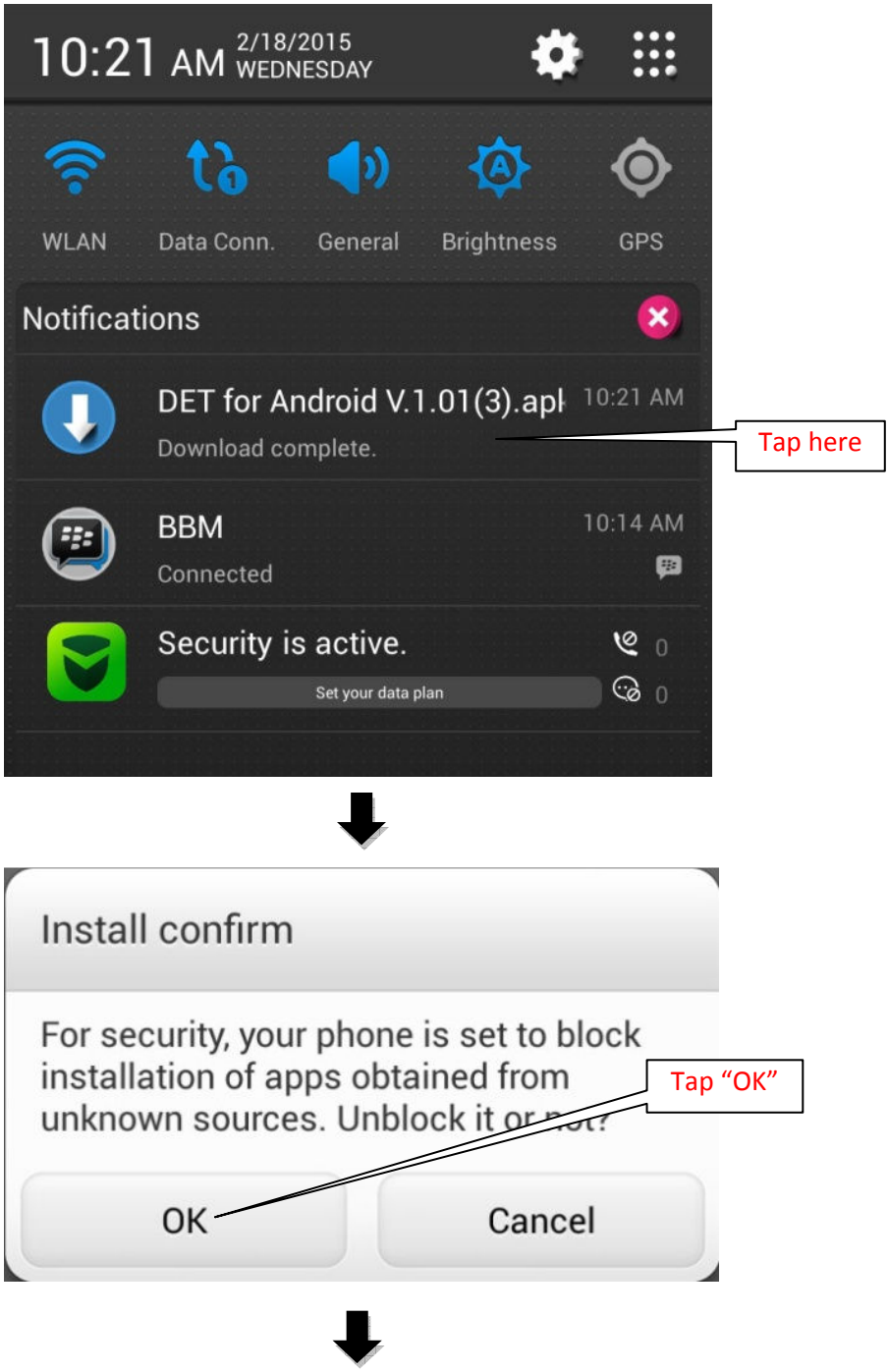
On Android device, go to the internet browser ;*http://goo.gl/cdf881* , or scan the below QR Code.

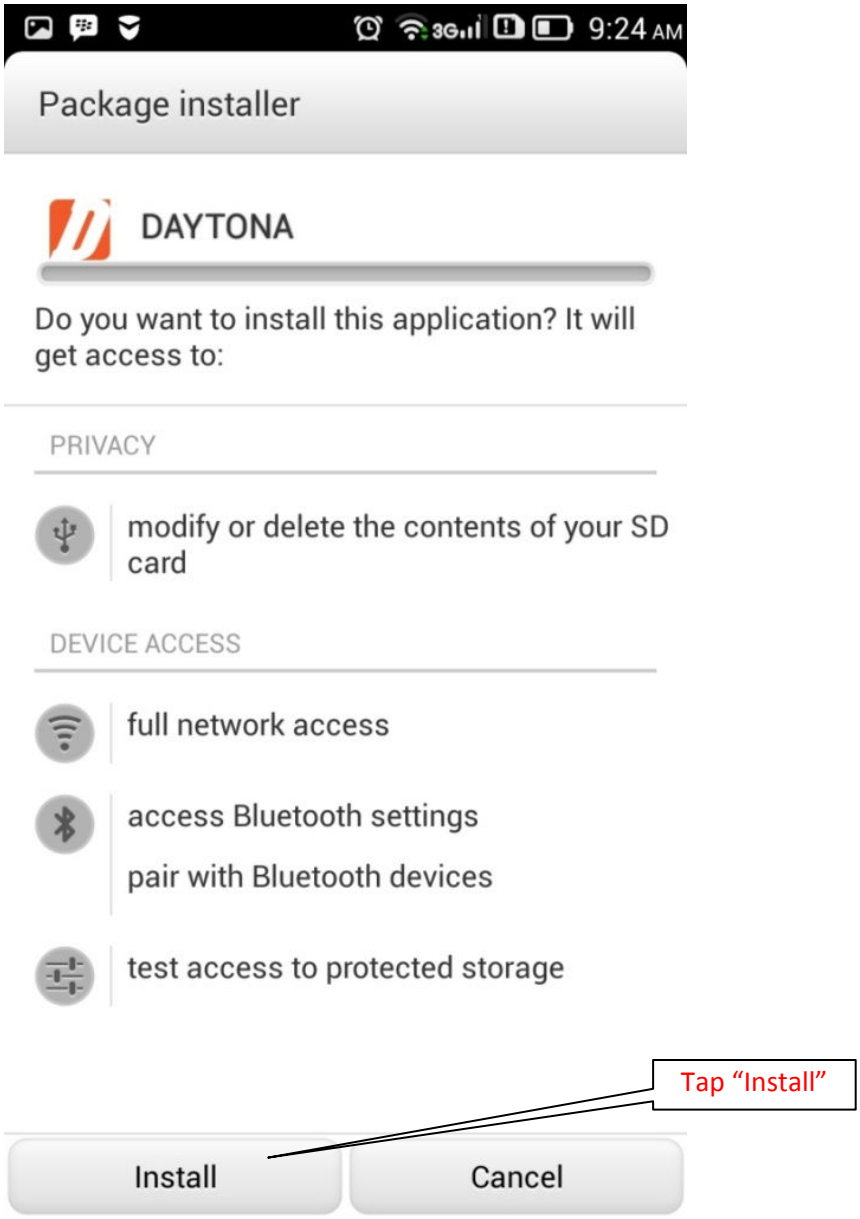
You will then be directed to Daytona website ;*www.daytonaindonesia.com*
Click on"*Daytona ECU Tuner for Android V.1.01*".

You will be directed to the download site, and then click on "DOWNLOAD" (DET for Android V1.01).



After download, open that software “DET for Android V.1.01”.



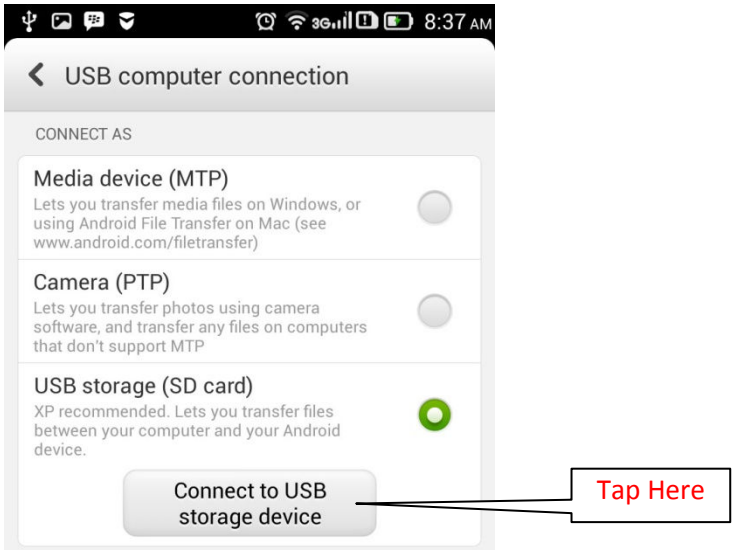


Tap “DONE” when finished. Software is now succesfully installed.

1.2 Download the Software from the supplied CD

a. ConnectAndroid device to PC

b. Tap "*USB Computer Connection*" and then tap "*Connect to USB storage device*"

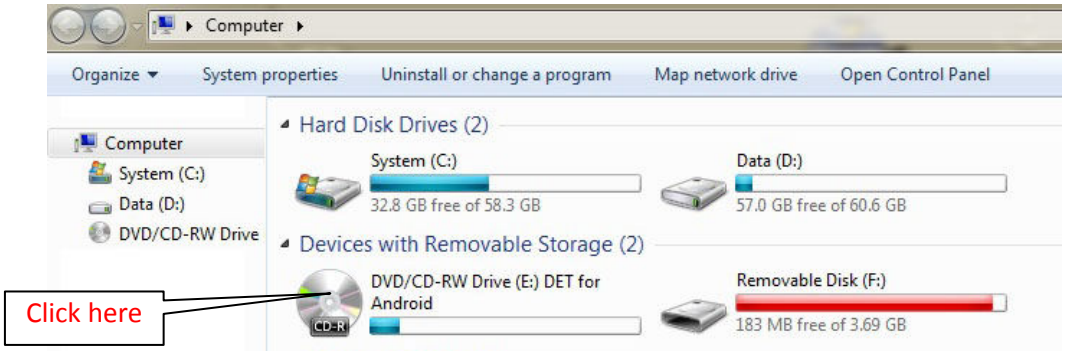

8:37 AM
USB computer connection
CONNECT AS
Media device (MTP)
Lets you transfer media files on Windows, or using Android File Transfer on Mac (see www.android.com/filetransfer)
Camera (PTP)
Lets you transfer photos using camera software, and transfer any files on computers that don't support MTP
USB storage (SD card)
XP recommended. Lets you transfer files between your computer and your Android device.
Connect to USB storage device
Tap Here

c. Once connected, PC will automatically detect the new device (your device memory card) and will start the driver installation.

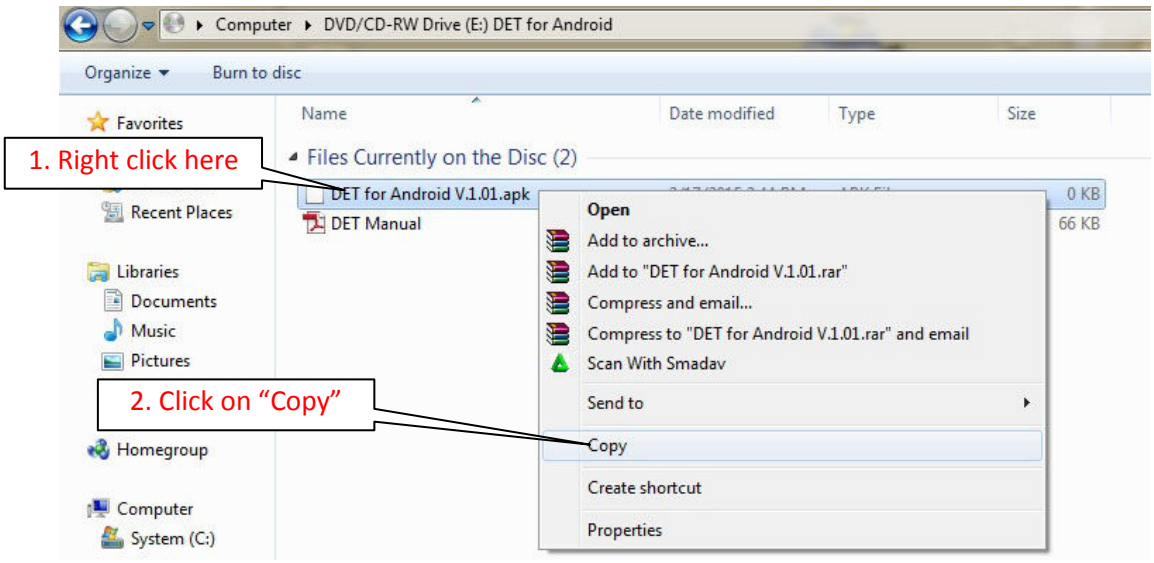
d. Insert the supplied CD into CD-ROM driver.

e. Click on "*START*" and thenopen*"My Computer*".

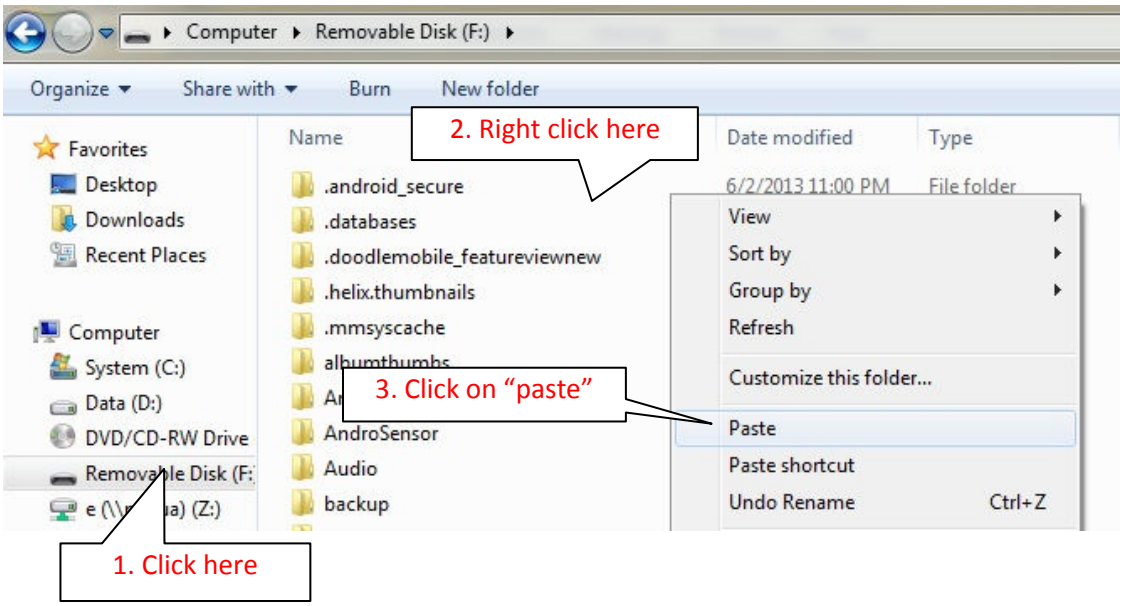
f. Clickon CD-ROM/DVD-ROM drive.



g. Copy the file "*DET for Android V.1.xx*"

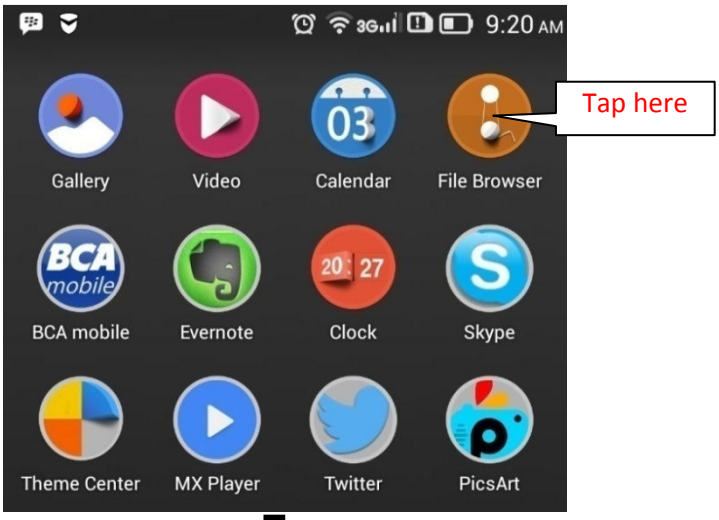


h. Open Android device storage, and then paste the copied software "*DET for Android V.1.xx*".

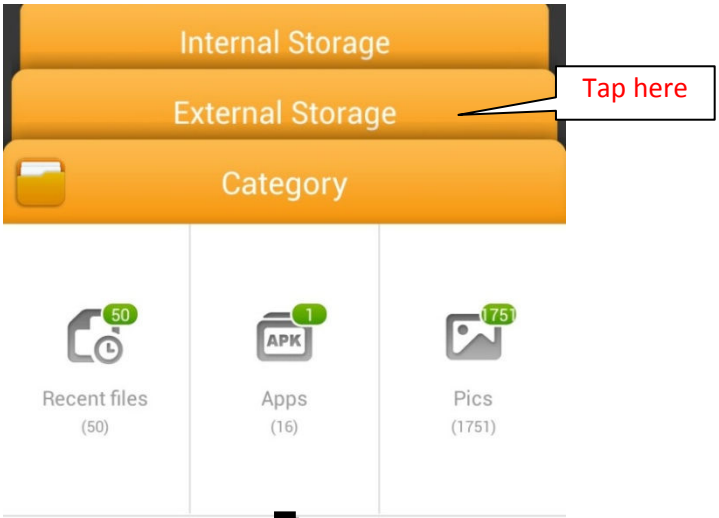


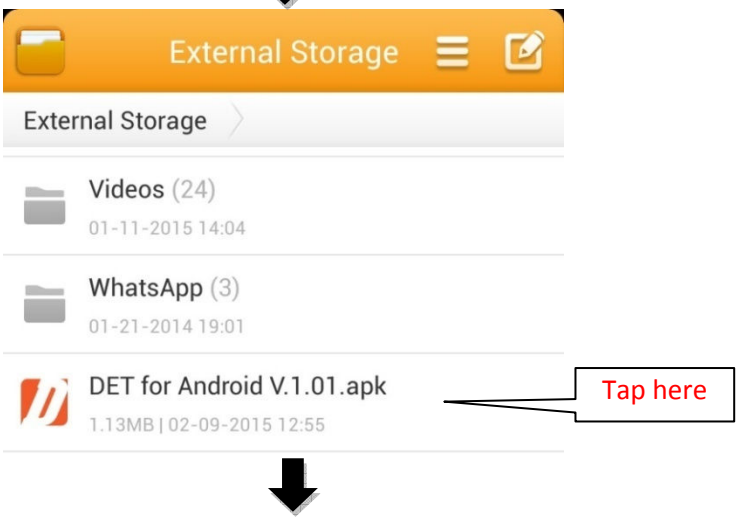
i. Disconnect Android device from PC.

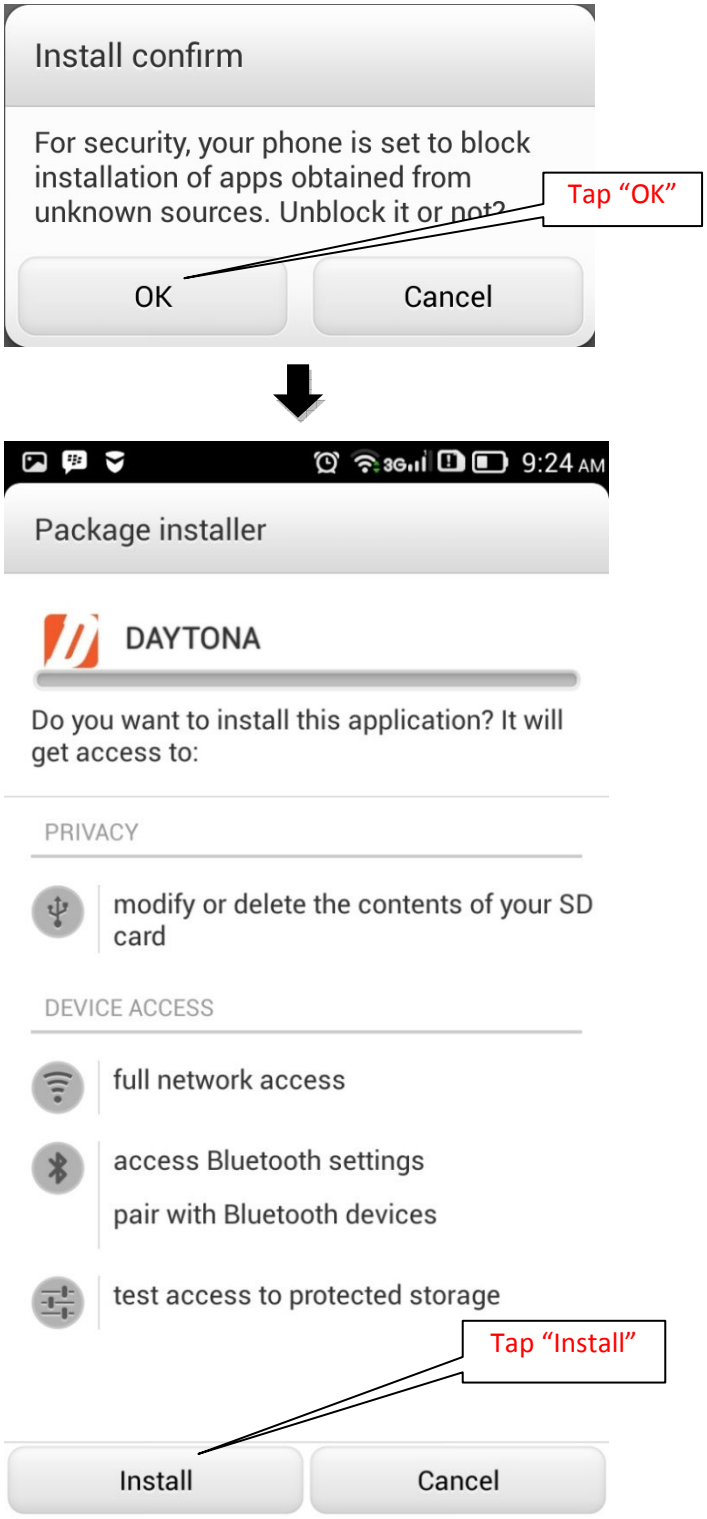
j. On Android Device,Open File Manager/Browser.



Choose External Storage / SD Card





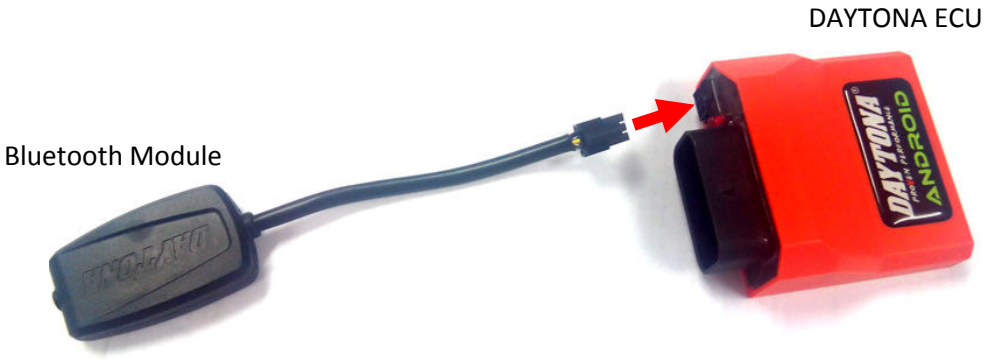


Tap “DONE” when completed. The Application is now sucessfully installed.

2. Connecting DAYTONA ECU with Android Device

2.1 Remove the stock ECU from the motorcycle, and then install DAYTONA ECU instead.

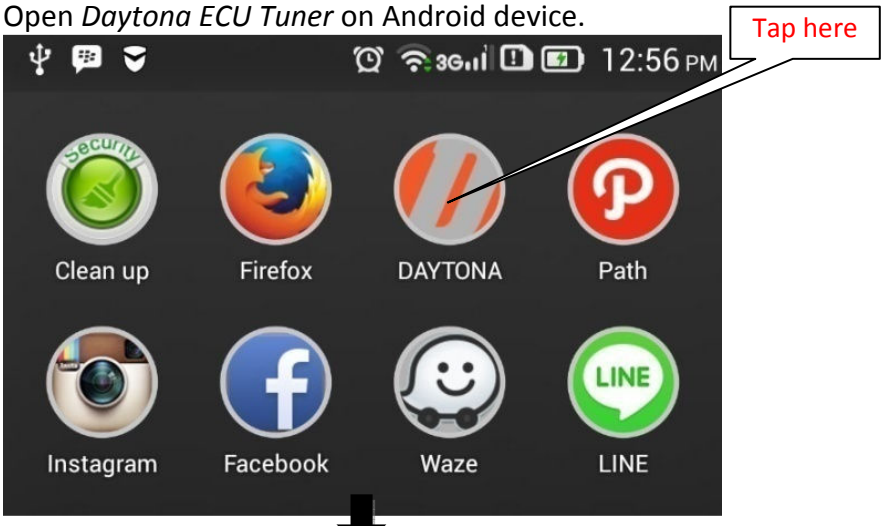
2.2 Connect the Bluetooth Module with DAYTONA ECU

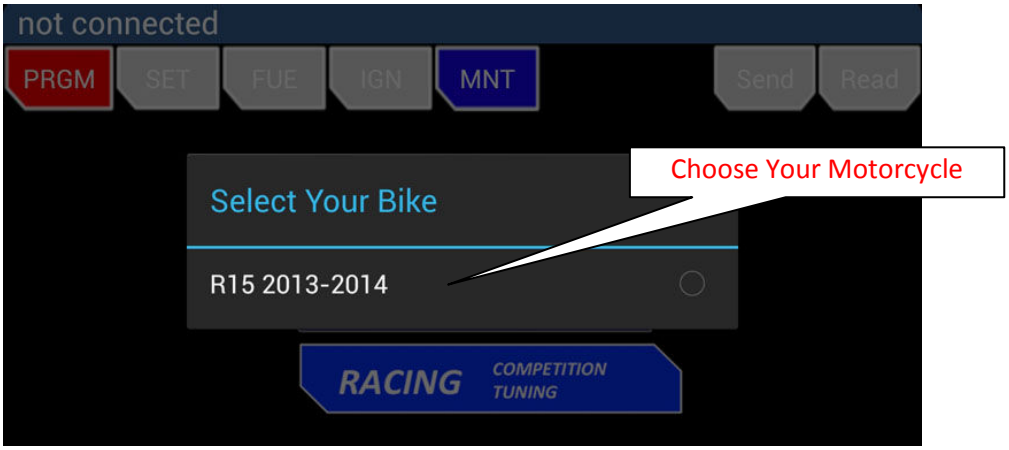


2.3 Turn on the motorcycle main switch.

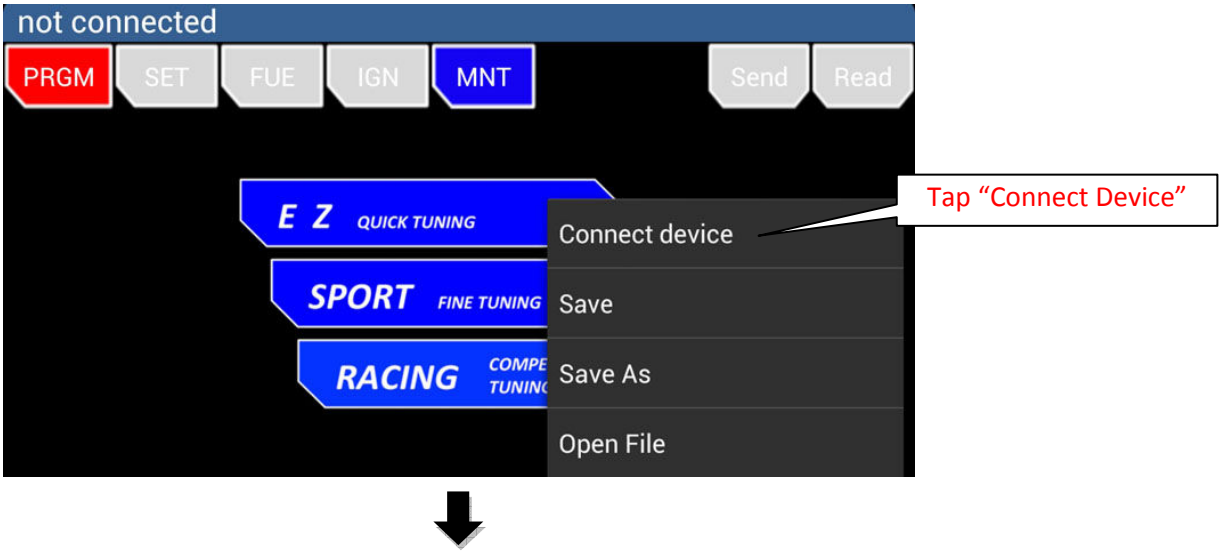
⚠ ***DO NOT RUN THE ENGINE while ECU TUNER is in use. Unexpected error may be caused.***

2.4 Open *Daytona ECU Tuner* on Android device.

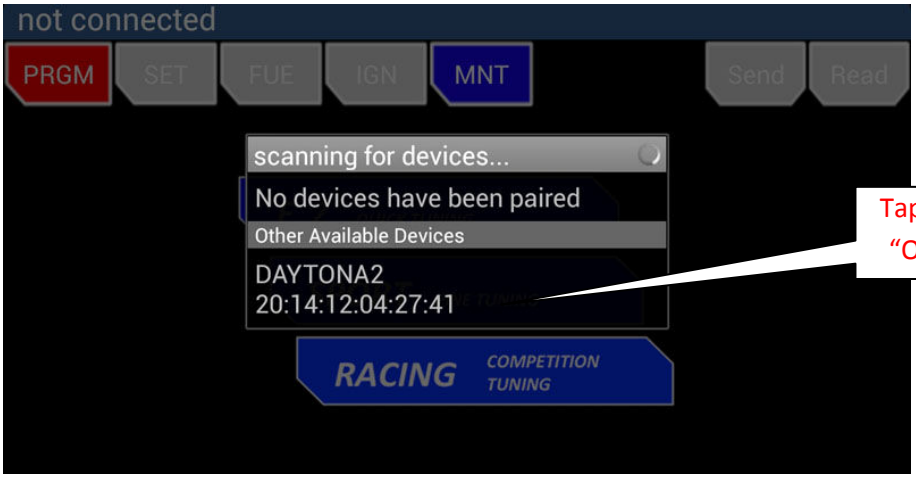


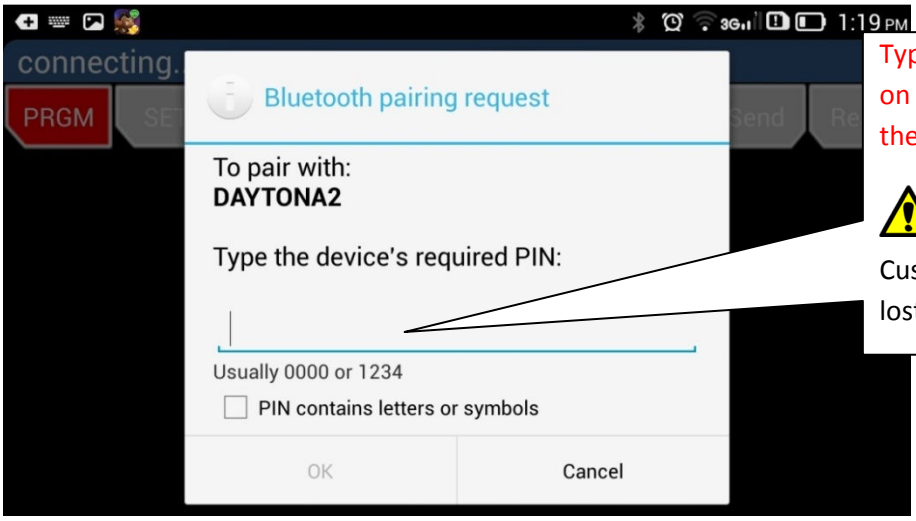


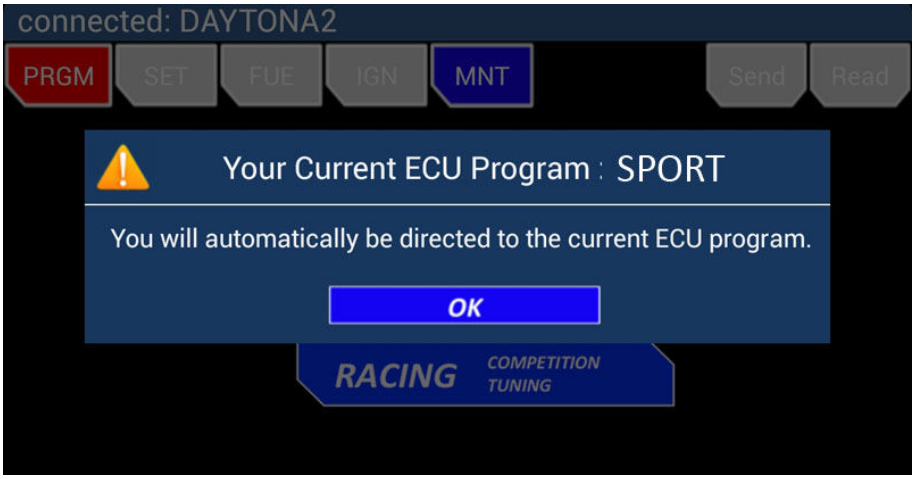
Tap “MENU” button on Android device, then tap “Connect Device”.



not connected
PRGM
SET
FUE
IGN
MNT
Send
Read
select a device to connect
No devices have been paired
Scan for devices
RACING
COMPETITION TUNING
Tap “Scan for Devices”


not connected
PRGM
SET
FUE
IGN
MNT
Send
Read
scanning for devices...
No devices have been paired
Other Available Devices
DAYTONA2
20:14:12:04:27:41
RACING
COMPETITION TUNING
Tap the device detected on “Other Available Devices”


1:19 PM
connecting...
PRGM
Bluetooth pairing request
To pair with:
DAYTONA2
Type the device's required PIN:
Usually 0000 or 1234
PIN contains letters or symbols
OK
Cancel
Type the 4-digit PIN written on the ECU package label, then tap “OK”
Contact DAYTONA Customer Service if PIN is lost or forgotten.



Once ECU is connected, the software will automatically be directed to the CURRENT ECU PROGRAM WRITTEN IN THE ECU.

⚠ ***If the above pop-up window DID NOT appear on the screen, Bluetooth connection may have been lost. To re-connect, take the following steps ;***

1. ***Shutdown the software completely***
2. ***Turn off the motorcycle main key once, and then turn it on again.***
3. ***Start over the software according to this manual item 2.4.***

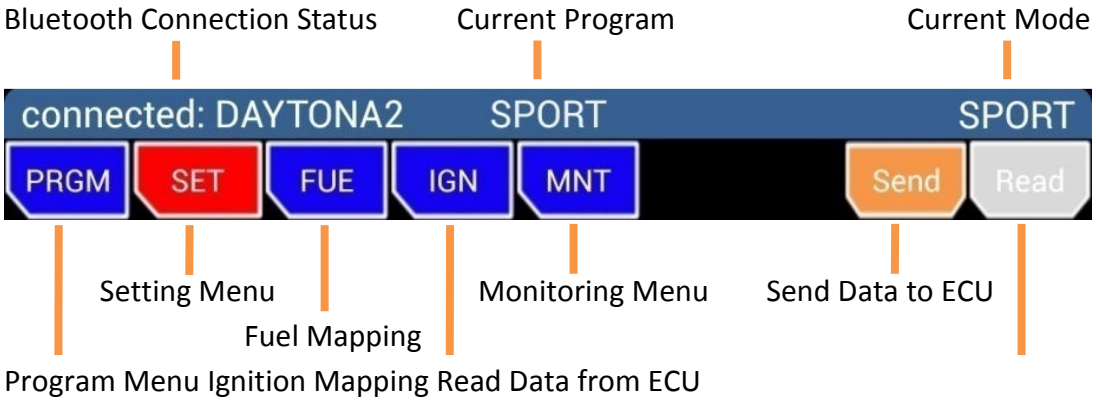
To go to the main menu, tap “PRGM” and then tap “CONTINUE”.

The software is now ready to use.

⚠ ***Before using ECU TUNER, carefully read the COMPLETE MANUAL in the supplied CD.***

⚠ ***The Bluetooth Module MUST BE DISCONNECTED from ECU once the tuning is done. DO NOT leave the Bluetooth Module connected with ECU while riding.***

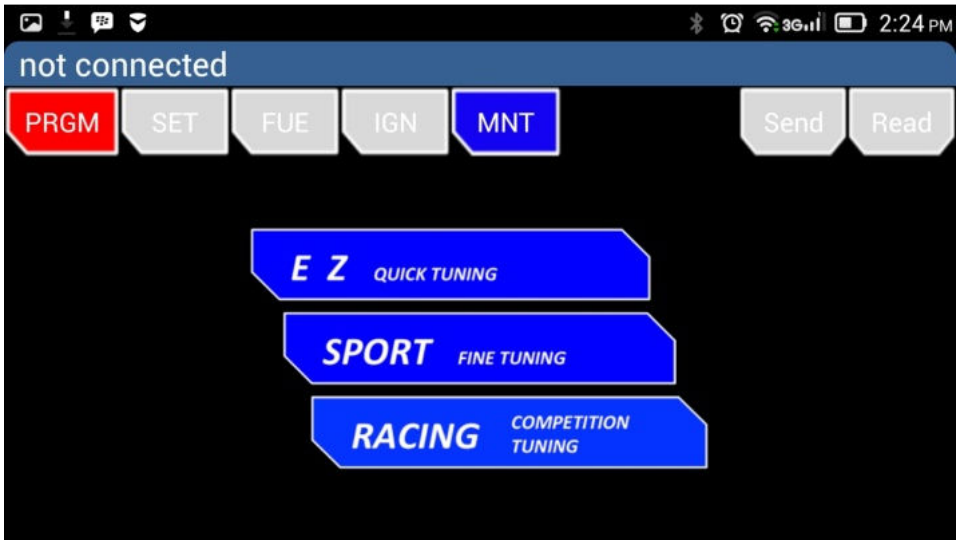
3. Display Introduction



⚠ ***The red-colored menu indicates where you are currently at.***

⚠ ***The blue and orange-colored menus/cells/windows are where selectable, and the gray is NOT. The "READ" button only goes orange color after the data is sent to ECU.***

4. Program Menu



Choose one of the three programs ; EZ, SPORT and RACING

4.1 EZ

This is a "Quick Tuning" program. Just choose one from the three different modes ;

a ECO
Fuel supply is same or slightly less than stock

b LITE TUNE
Fuel supply is pre-set for light modified engine in exhaust system

c POWER TUNE
Fuel supply is pre-set for modified engines in piston, air-cleaner and exhaust.

4.2 SPORT

This is a simple tuning program using 4 x 4 colmns

a Fuel adjustable range : -5 to +7

b Ignition timing adjustable range : -5 to +5

4.3 RACING

This is race-level tuning programs, RACING 10 and RACING 30.

a RACING 10 : 4X10 columns

Fuel adjustable range : -20to+20

Ignition timing adjustable range : -10to+10

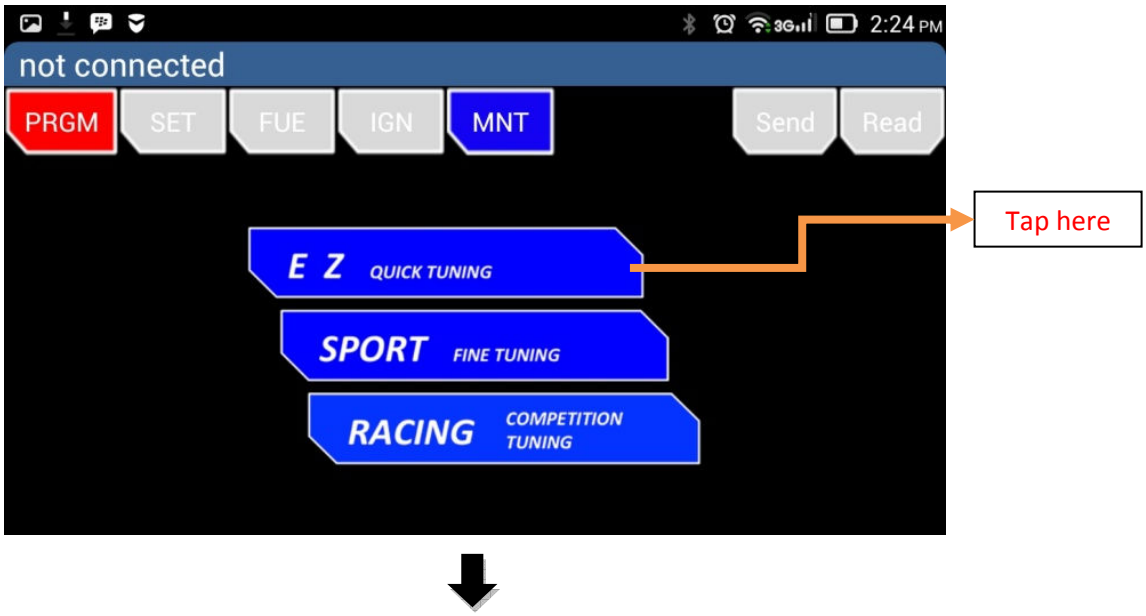
b RACING 30 : 4X30 columns

Fuel adjustable range : -20to+20

Ignition timing adjustable range : -10to+10

5. EZ Program

On Program Menu, tap“EZ”.



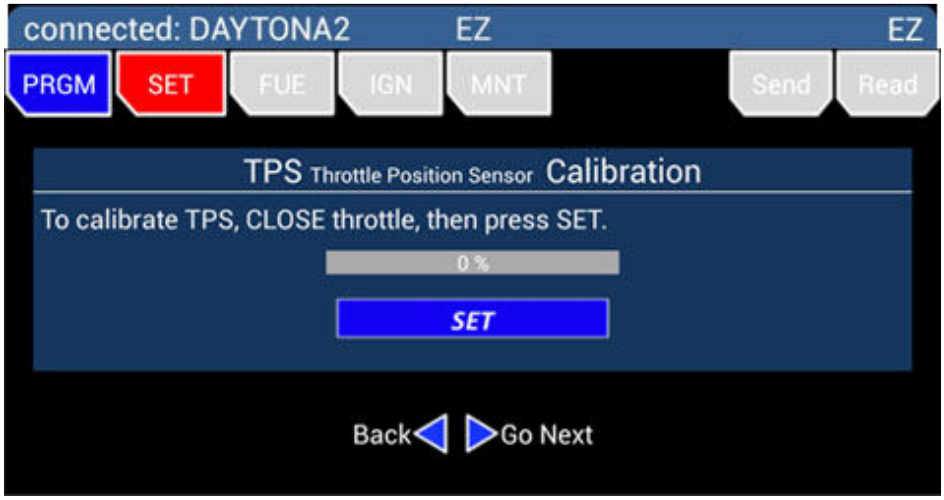
Automatically directed to TPS Calibration menu.

To make the ECU work properly, TPS calibration is required for the first time.

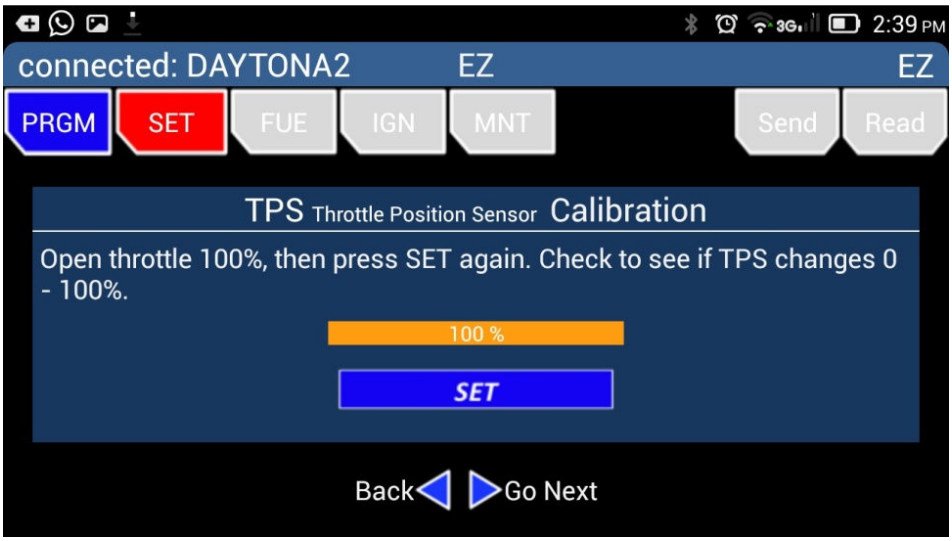
5.1 TPS Calibration

a Turn on the motorcycle main switch

b Close throttle completely, then tap “SET” according to the instruction on the below screen.



c Open throttle 100%, andtap"SET" again according to the instruction on the below screen.



d To double check, close and open throttle to see if the throttle position shows 0% to 100% on the orange indicator.

e Tap"Go Next"if everything is okay.

⚠ ***Once the TPS calibration is done properly, you DO NOT have to do it again, and you can just skip the calibration setup by tapping “GO Next”.***

⚠ ***If the Bluetooth connection may be lost,re-connect it by the following steps ;***

1. ***Shutdown the software completely***
2. ***Turn off the motorcycle main key once, and then turn it on again.***
3. ***Start over the software according to this manual item 2.4.***

⬇

Choose and tap one of the three modes, ECO, LITE TUNE and POWER TUNE, then tap “OK” to confirm.

⬇

Now, the data has been sent successfully to ECU.
Disconnect the blue tooth module, and then perform test rides in a closed and safe area before use.

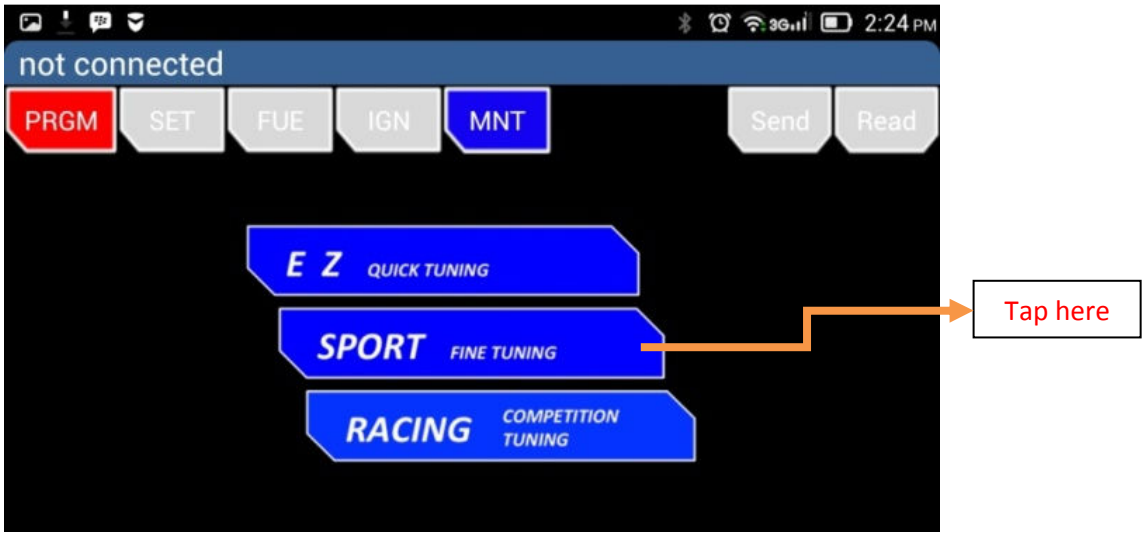
⚠ ***The Bluetooth Module MUST BE DISCONNECTED from ECU once the tuning is done. DO NOT leave the Bluetooth Module connected with ECU while riding.***

⚠ ***DO NOT RUN THE ENGINE while ECU TUNER is in use. Unexpected error may be caused.***

6. SPORT Program

SPORT PROGRAM allows you to adjust fuel supply and ignition timing by using the 4x4 columns.

On Program Menu, tap“SPORT”.



You will then bedirected to TPS Calibration.

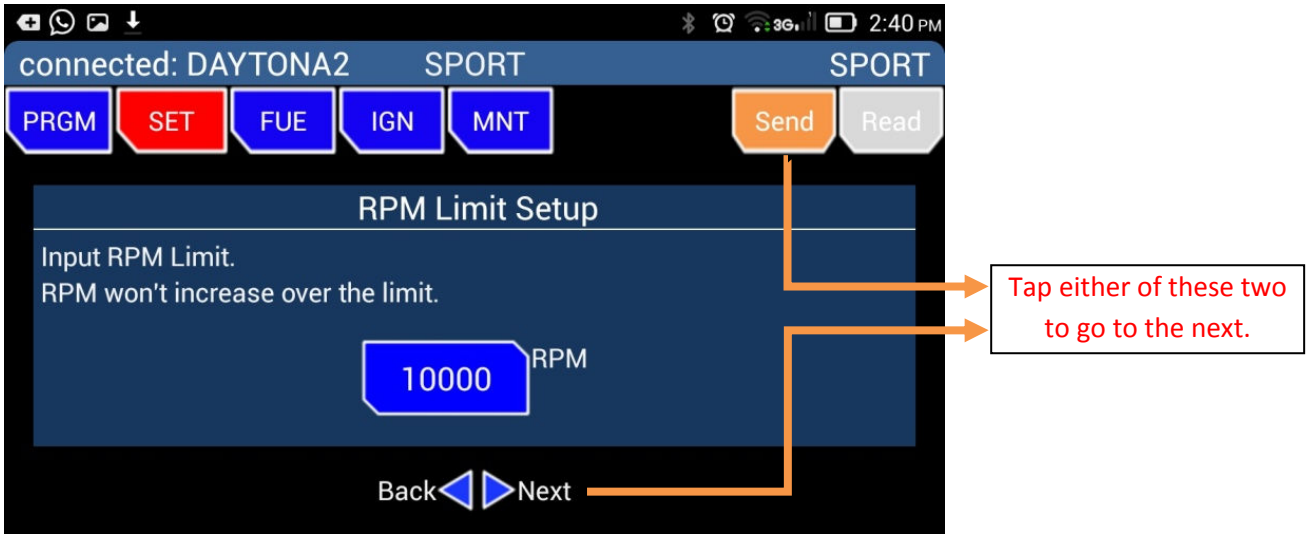
Calibrate TPS according to the instruction mentioned in the item 5.1 TPS Calibration of this manual.

6.1 Setup Menu

After TPS calibration, “RPM Limit Setup”will appear.

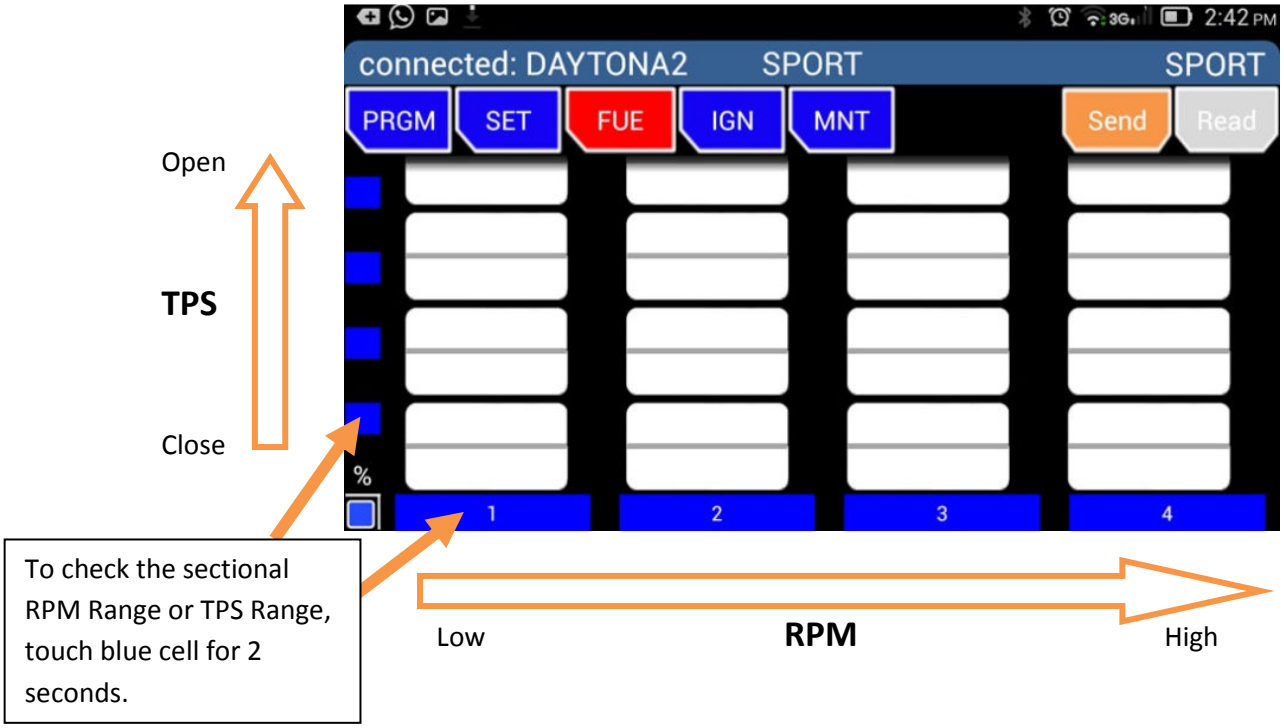
Tap RPM value tomodify, and tap “SET”. Then, tap “NEXT”or“SEND” to confirm.

⚠ ***The RPM Range is automatically divided into four columns according to the RPM Limit that you have entered.***



Now, the RPM Limit has been modified and sent to ECU.

You will automatically be directed to the fuel adjustment menu(FUE).

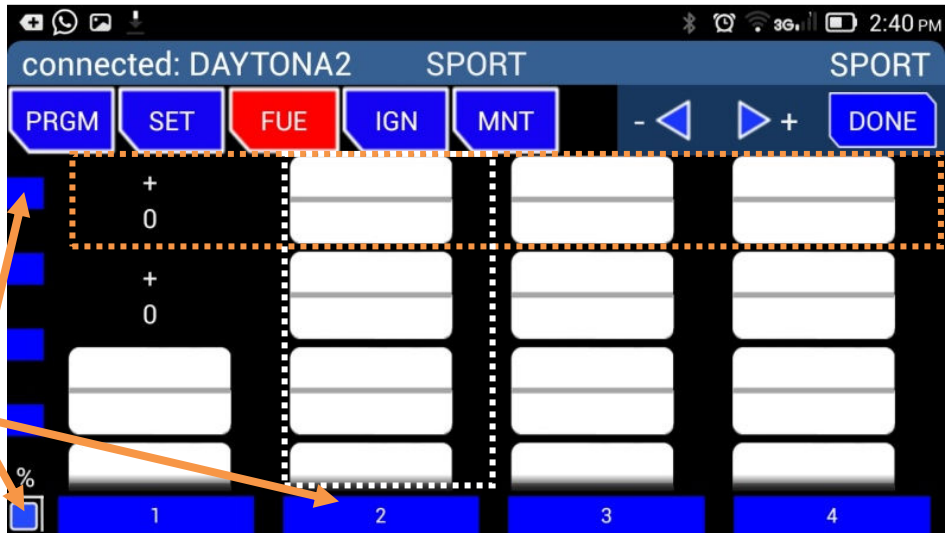


6.2 Fuel Mapping

To modify fuel map, tap one or more blue/white cells where you would like to modify. If the blue cell(s) are tapped, all the white cells on that line(s)/row(s) will be selected and will turn into number display. To return, tap the same cell(s).

If the blue cell is tapped, all the white cells on that line/raw will turn into number display.

Tapping the blue cell on the left bottom corner will make entire cells turn into number display.



If the fuelis too lean, engine may be damaged. It is highly recommended to program the fuel supply from richer to leaner while checking the AFR(Air Fuel Ratio). The ideal AFR range would be12.5 - 12.9.

Use the icon

on the upper right to make it richer/leaner.
The adjustable range is -5 to +7.

To make it richer, increase the value bytapping

.

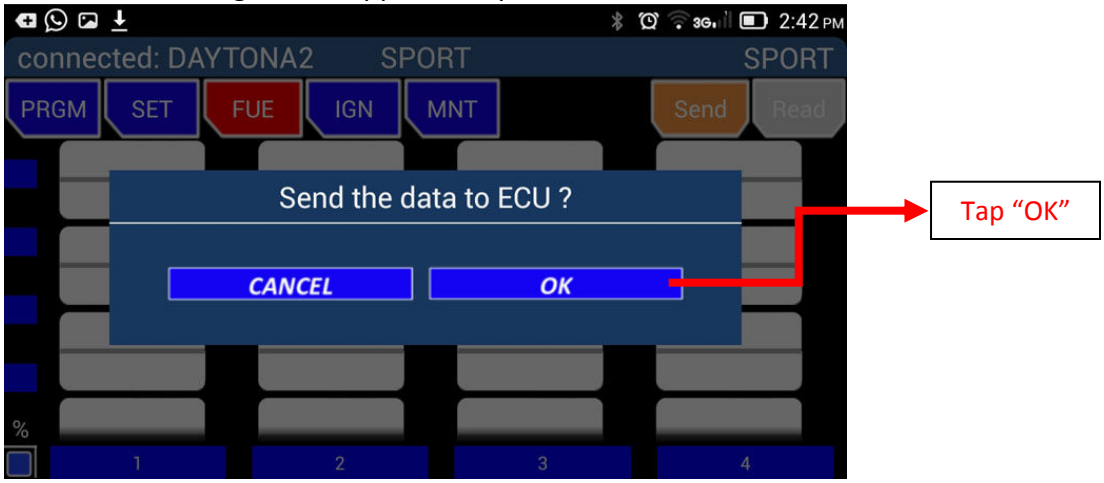
To make it leaner, decrease the value by tapping

.

Once modified all, tap

To send the modified map to ECU, tap

Then the following screen appears. Tap “OK” to confirm.



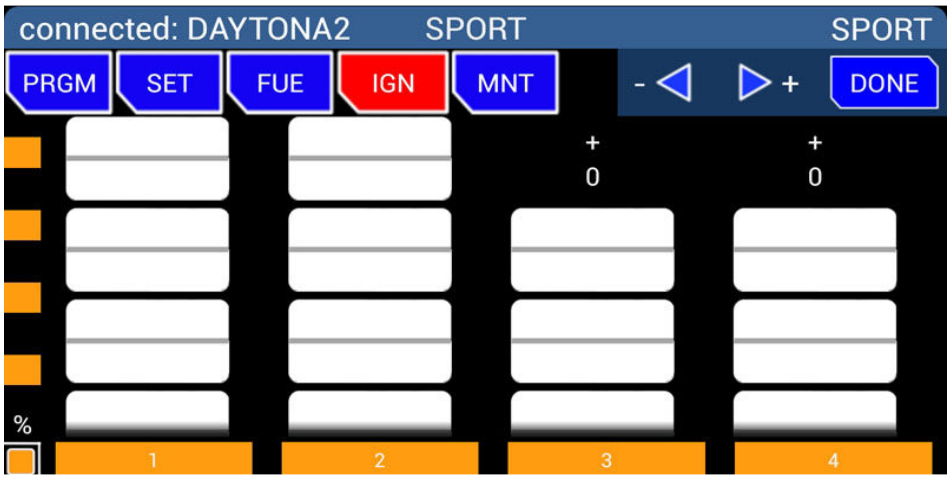
⚠ ***If the above message "Data Successfully Sent" did NOT appear, Bluetooth connection may have been lost. To re-connect, take the following steps ;***

1. ***Shutdown the software completely***
2. ***Turn off the motorcycle main key once, and then turn it on again.***
3. ***Start over the software according to this manual item 2.4.***

6.3 Ignition Mapping

Tap

to go to ignition map.
To modify ignition map, tap one or more blue/white cells in the same way as the FUEL MAPPING in the above item "6.2 FUEL MAPPING".



Use the icon

on the upper right to advance/retard the ignition timing.

⚠ ***An increment/decrement of the value is read as one degree of ignition timing.***

To advance, increase the value by tapping

.

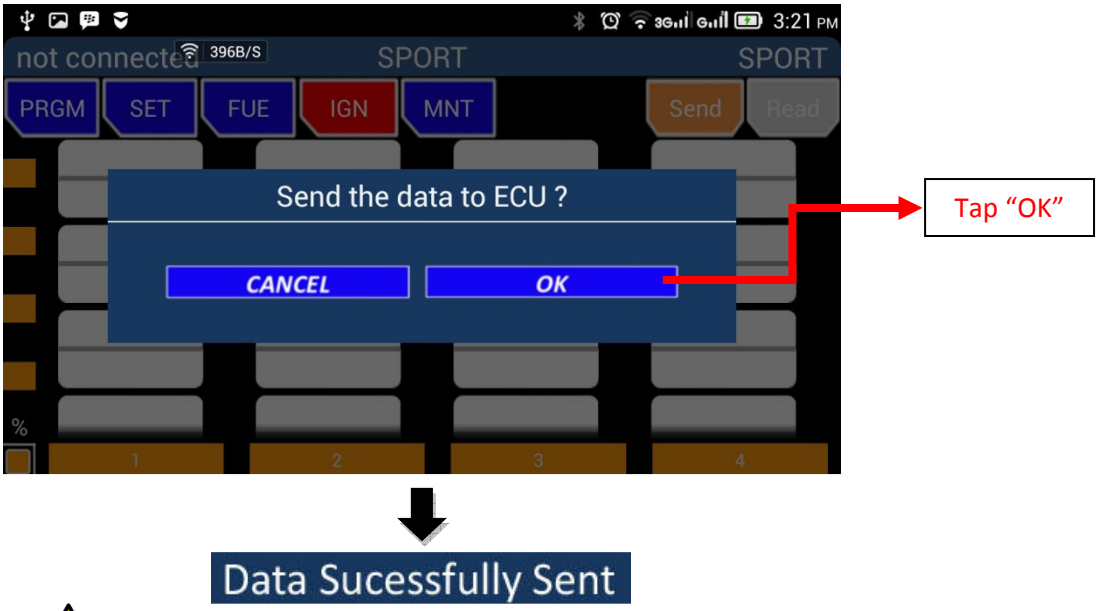
To retard, decrease the value by tapping

.

Once modified, tap

To send the modified map to ECU, tap

Then the following screen appears. Tap "OK" to confirm.



If the above message “Data Successfully Sent” did NOT appear, Bluetooth connection may have been lost. To re-connect, take the following steps ;

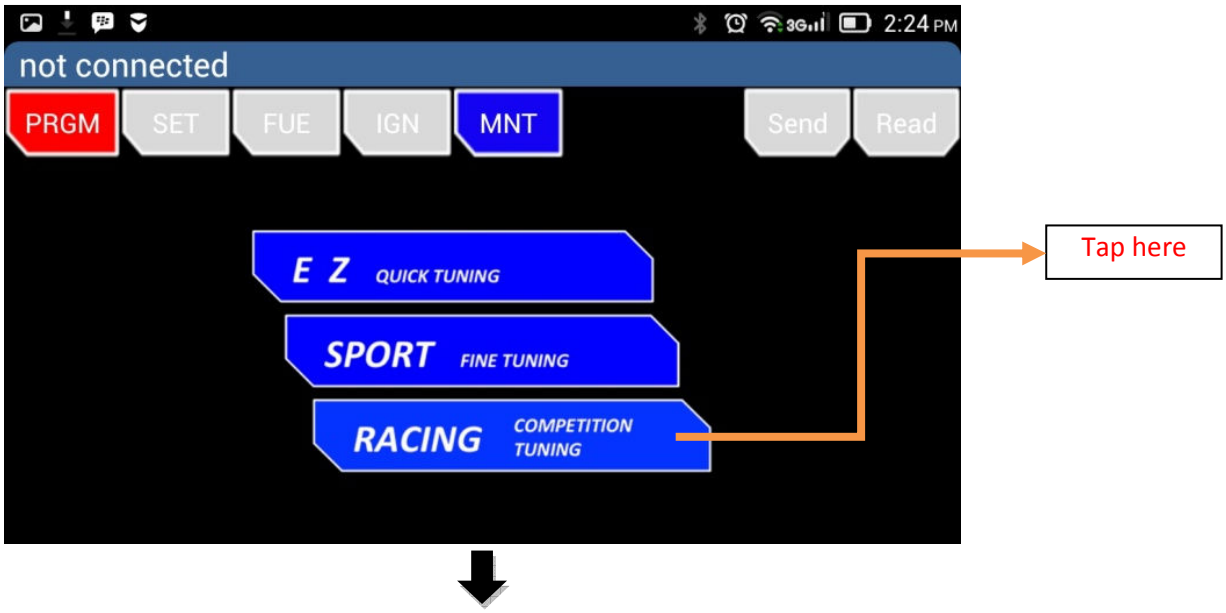
1. ***Shutdown the software completely***
2. ***Turn off the motorcycle main key once, and then turn it on again.***
3. ***Start over the software according to this manual item 2.4.***

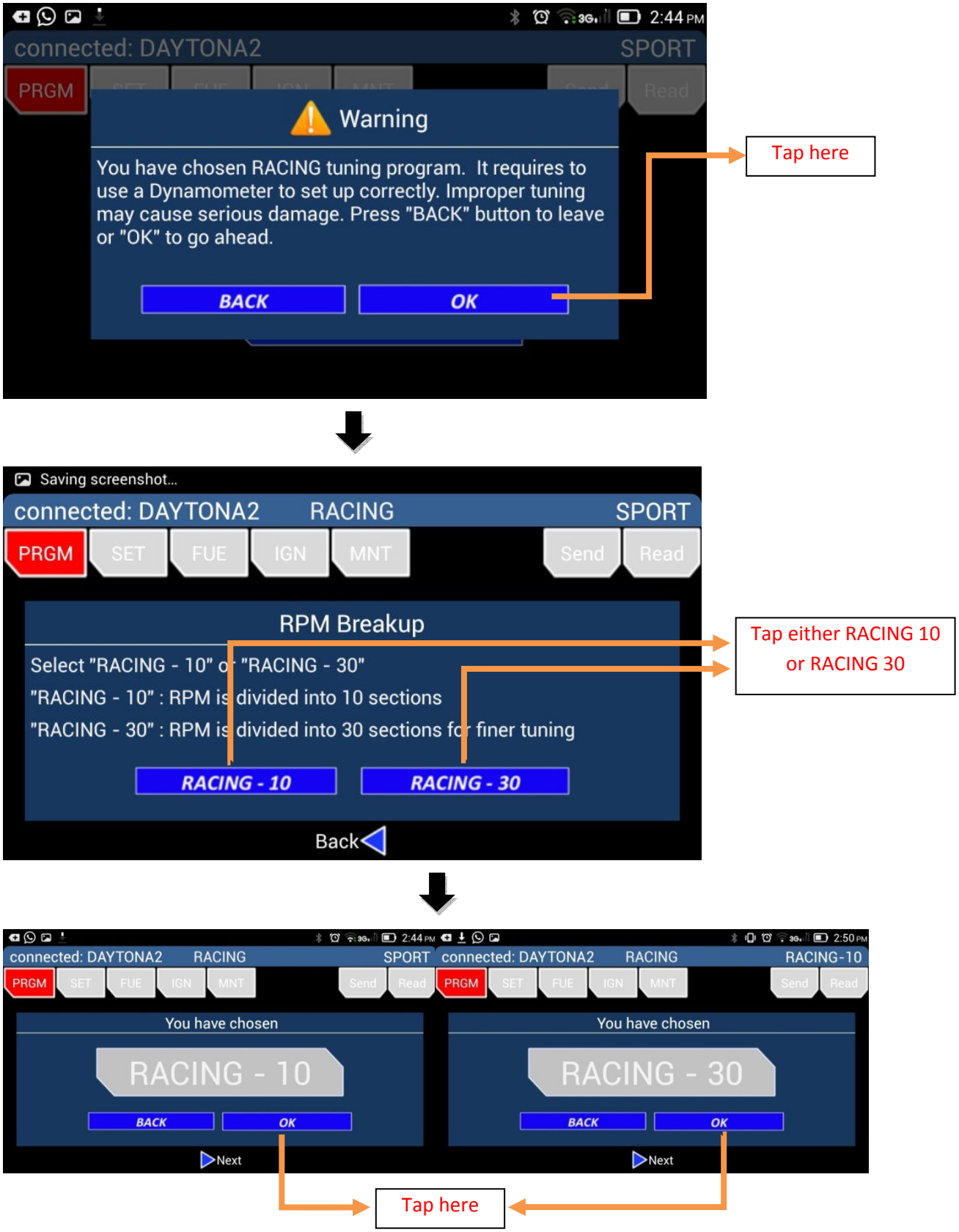
7. RACING Program

RACING PROGRAM allows you to setup fuel supply and ignition timing more accurately.

It requires to use a Dynamometerto set up RACING PROGRAM. Consult with a prfessional mechanic if uncertain..

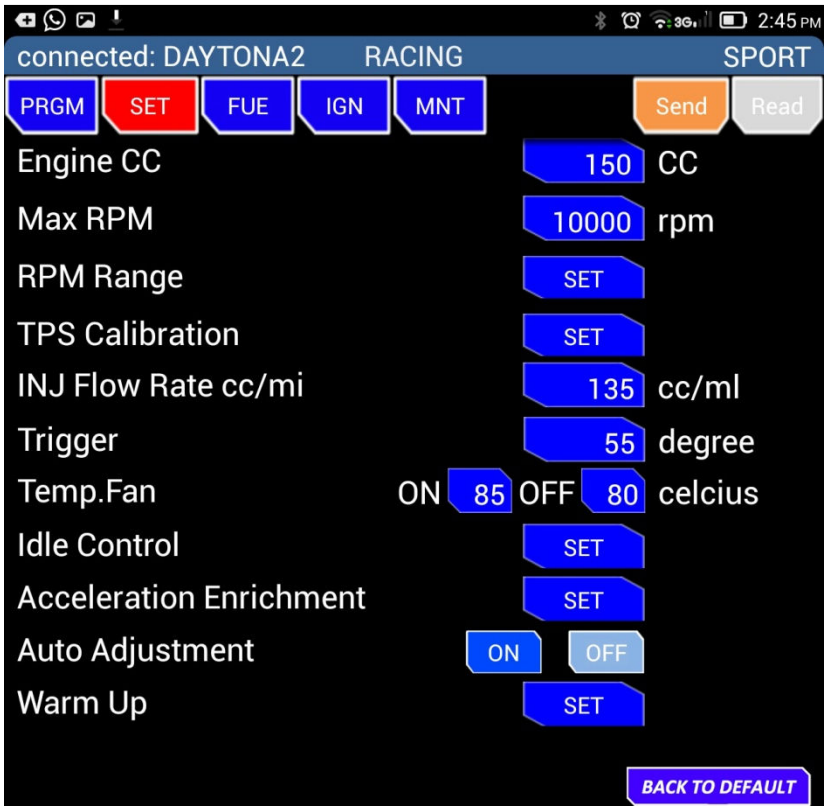
On Program Menu, tap“RACING”.




connected: DAYTONA2
SPORT
PRGM
Read
Warning
You have chosen RACING tuning program. It requires to use a Dynamometer to set up correctly. Improper tuning may cause serious damage. Press "BACK" button to leave or "OK" to go ahead.
BACK
OK
Tap here
Saving screenshot...
connected: DAYTONA2 RACING SPORT
PRGM SET FUE IGN MNT Send Read
RPM Breakup
Select "RACING - 10" o "RACING - 30"
"RACING - 10" : RPM is divided into 10 sections
"RACING - 30" : RPM is divided into 30 sections for finer tuning
RACING - 10
RACING - 30
Back
Tap either RACING 10 or RACING 30
connected: DAYTONA2 RACING SPORT
connected: DAYTONA2 RACING RACING-10
You have chosen
RACING - 10
RACING - 30
BACK
OK
Next
Tap here

After confirmed “OK”, you will automatically be directed to Setting menu.

7.1 Setting Menu



Engine CC

To input the displacement if the engine displacement is modified.This will automatically adjust the fuel supply according to the displacement, however it is still required to adjust some to obtain ideal setting.

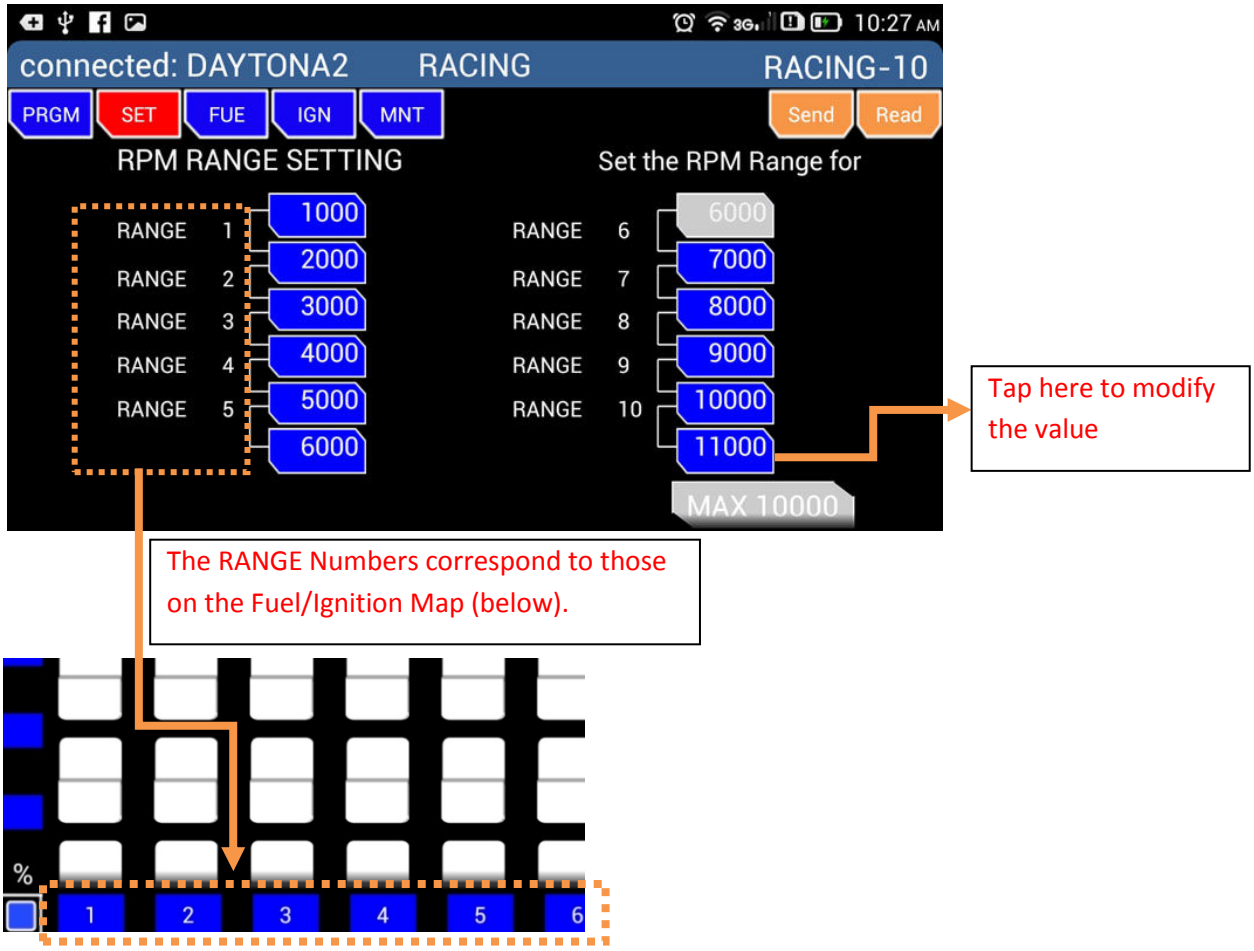
Max RPM

To input RPM Limit.

⚠ ***Engine may be broken if the the value is set higher than stock RPM limit.***

RPM Range

In RACING PROGREM, RPM Range can be modified for more accurate mapping.
Tap “SET” to go to setting menu, and the below screen will appear.
To modify the value, tap blue cells.
Once modified all, tap Send so that the modified data will be sent to ECU.



RPM Range modification will be effected on both FUEL and IGNITION MAPS.

TPS Calibration

To calibrate TPS. See the above item5.1 TPS Calibration.

INJ Flow Rate (cc/min)

When a larger capacity fuel injector is in use, modify this value accordingly so that the fuel supply is automatically adjusted, however it is still required to adjust some to obtain ideal setting.

Trigger Angle

To modify trigger angle of ignition timing. This feature is useful when the ECU is used for different engine configuration from the original application.

Temp. Fan On/Off

To modify temperature where cooling fan goes on and off.

Idle Control

To stabilize idling rpm, increase/decrease fuel supply by rpm range. This map is effective at 0% TPS or when throttle is closed.

Tap “SET” to go to the setting menu, and the below screen will appear.

To modify the value, tap blue cell, and then tap SET”.

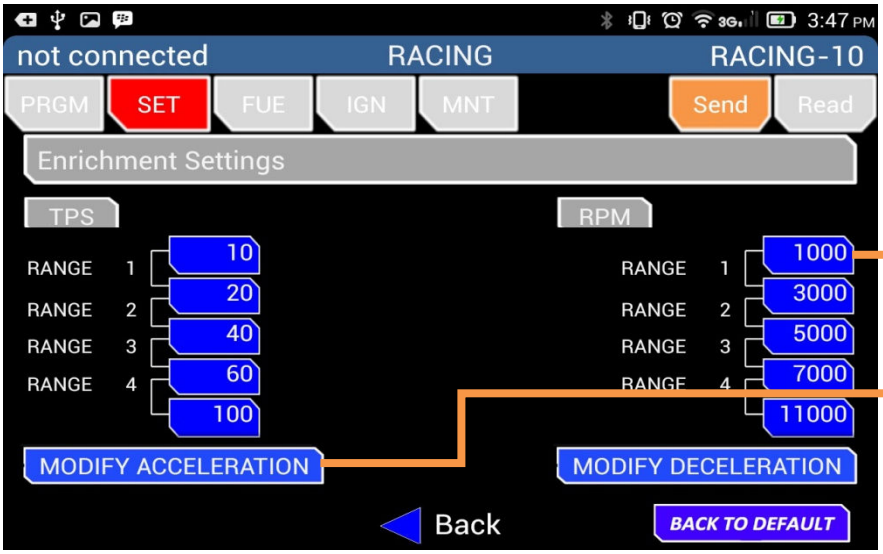
Once modified all, tap Send to send the modified data to ECU.

Acceleration Enrichment

To control fuel supply when accelerated/dcelerated. Tap “SET” to go to the setting menu, and the below screen will appear.On this menu, TPS/RPM Range modification can be done.To modify the value, tap blue cell, and then tap SET”.

Once modified all, tap Send to send the modified data to ECU.

To modify Acceleration map, tap “MODIFY ACCELERATION”



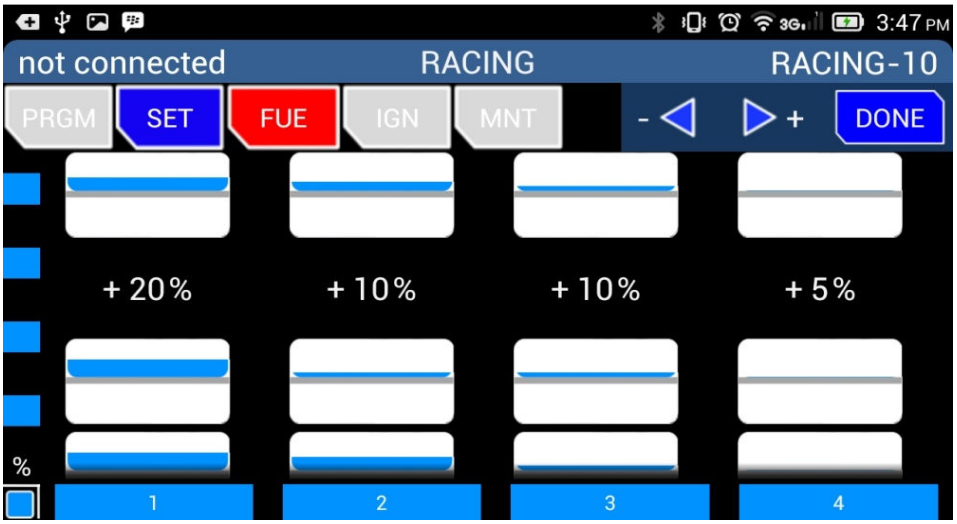
Tap blue cell(s) to modify the value

After TPS/RPM range modification, tap here to go to acceleration map.

TPS and RPM Range modification will be effected on both Acceleration and Deceleration Maps.

The below screen is the acceleration map.
Tap the cell(s) to modify the value in the same way as item 6.2 FUEL MAPPING.
The value is read as amount of fuel added in %.

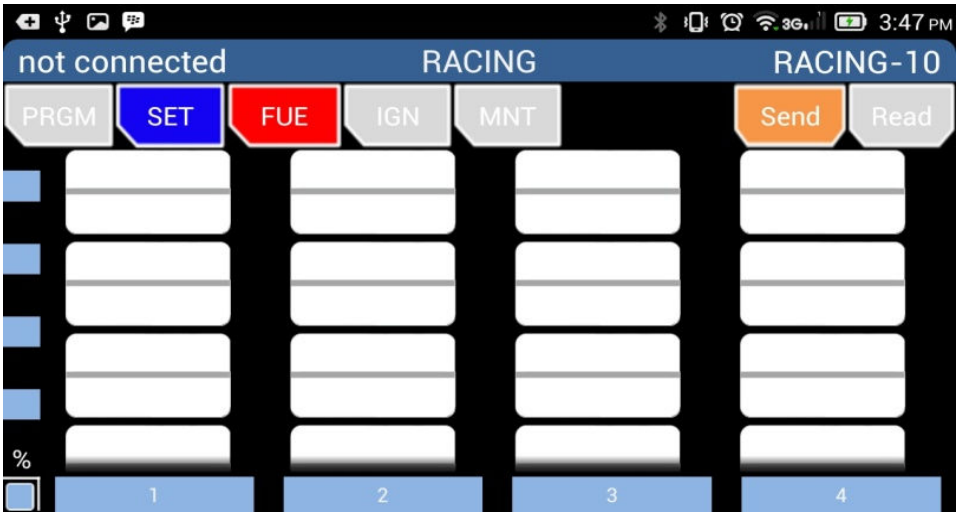
Once modified all, tap Send to send the modified data to ECU.



To go back to previous menu, tap SET

To modify Deceleration map, tap “MODIFY DECELERATION”.
Tap the cell(s) to modify the value, which is read as amount of fuel reduced in %.

Once modified all, tap Send to send the modified data to ECU.



To go back to previous menu, tap SET

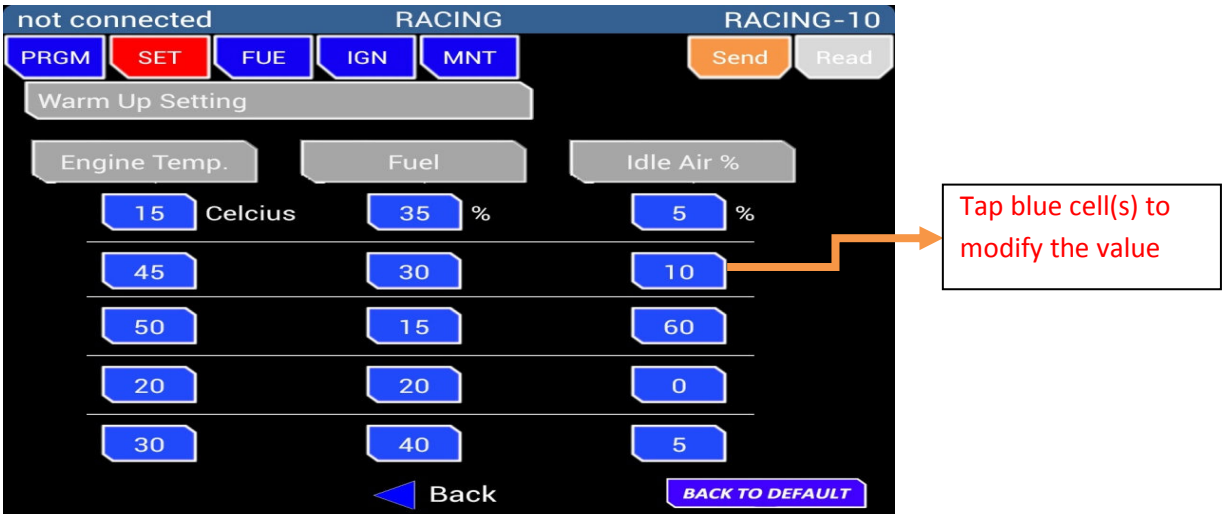
Auto Adjustment

To automatically adjust fuelsupply in accordance with intake air temperature. Tap“ON” to activate this function, and the color goes dark blue. Tap “OFF” to disactivate.

Warm Up

To program cold start fuel map by engine temperature. More fuel is required at lower temp.Both Fuel and Idle Air supplies are programmed by designated engine temperature. Tap blue cell to modify, and then tap “SET”.

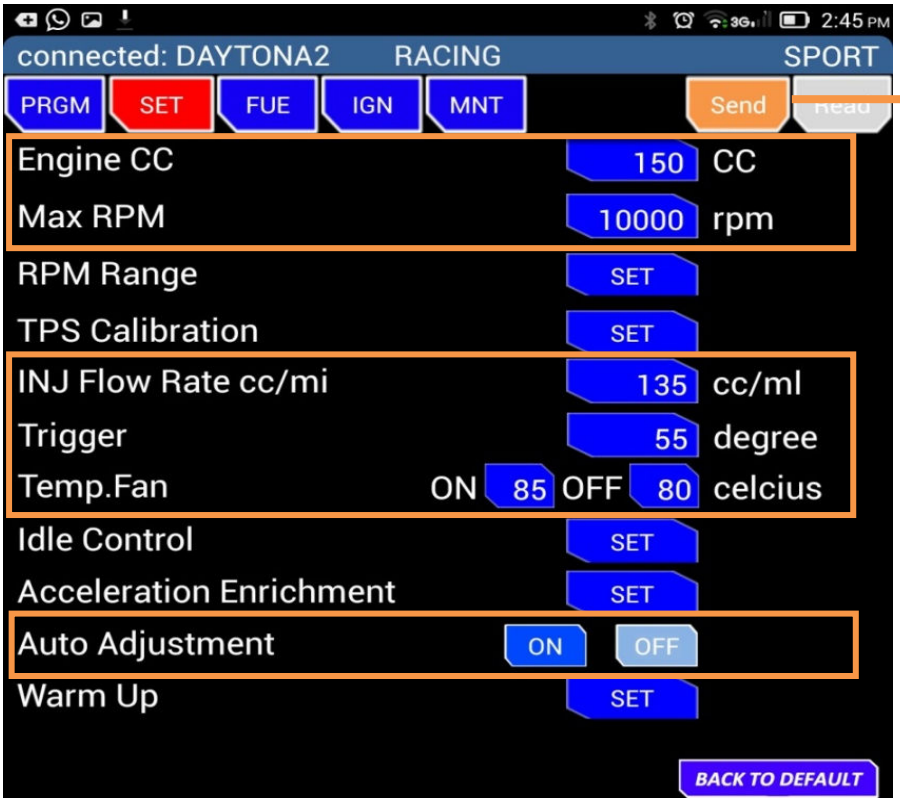
Once modified all, tap Send to send the modified data to ECU.



HOW TO SEND THE SETTING DATA

It is required to SEND the setting data to ECU in this menu, once modified.

Tap Send to send all general setting menus to ECU.



Tap here to send the setting data to ECU, but ONLY the data surrounded by orange line is sent.

The other data (NOT surrounded by orange line) is sent to ECU by the below procedure.

RPM Range : Tap "SET" and then tap Send.

TPS Calibration : Tap "SET" and then tap Send after calibration.

Idle Control : Tap "SET" and then tap Send.

Acceleration Enrichment : Tap "SET" and then tap Send, then;

1. Tap "MODIFY ACCELERATION" and then tap Send, tap SET to go back.
2. Tap "MODIFY DECELERATION" and then tap Send, tap SET wice to go back to "SETTING MENU".

Warm Up : Tap "SET" and then tap Send.

⚠ ***Be sure all the modified data is sent to ECU. ECU will NOT work properly if any is missed.***

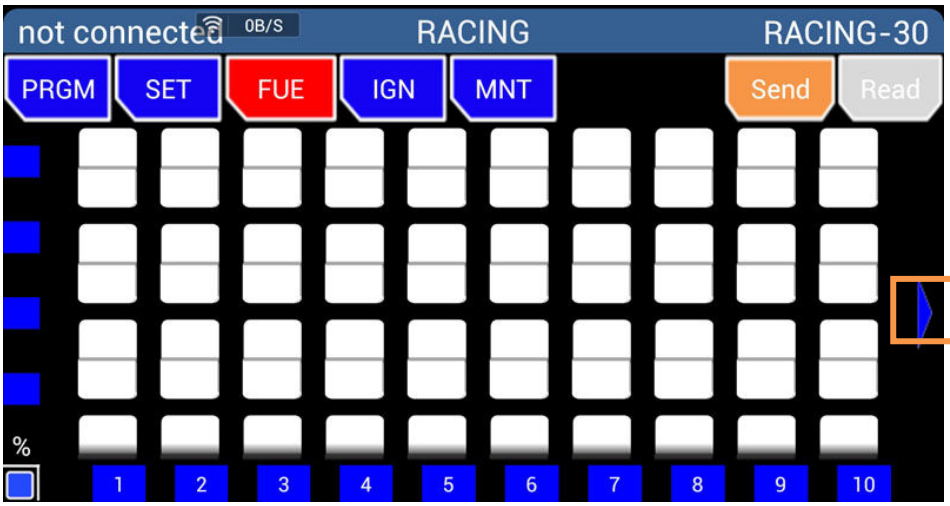
7.2 Fuel Mapping and Ignition Mapping.

7.2.1 Fuel Mapping

Tap FUE to go to fuel map.

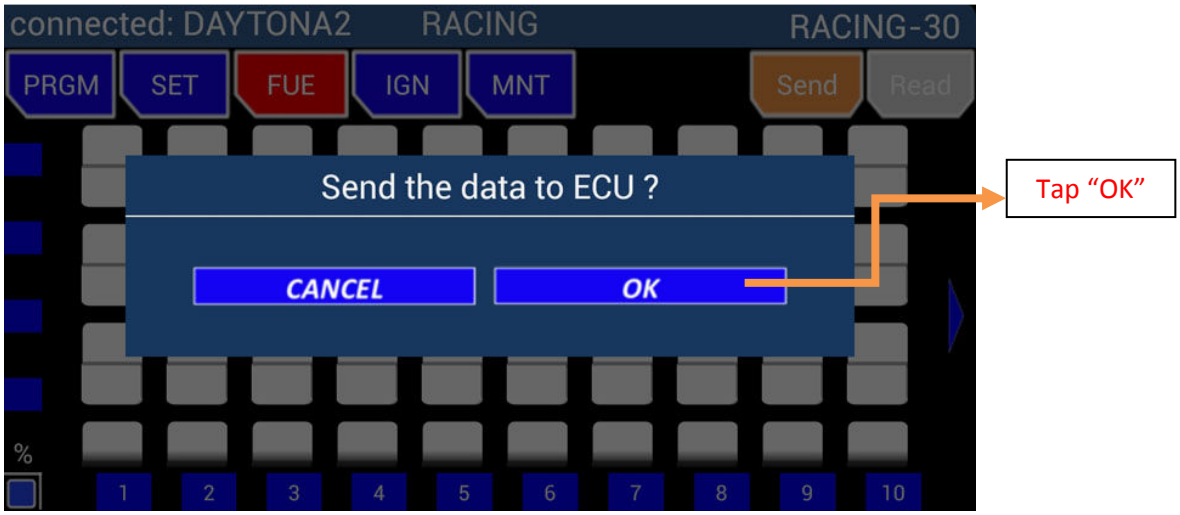
To modify fuel map, tap one or more blue/white cells in the same way as the above item "6.2 FUEL MAPPING".

Once modified all, tap Send to send the modified data to ECU.



If the fuelis too lean, engine may be damaged. It is highly recommended to program the fuel supply from richer to leaner while checking the AFR(Air Fuel Ratio). The ideal AFR range would be12.5 - 12.9.

Then the following screen appears. Tap "OK" to confirm.



⚠ ***If the above message "Data Successfully Sent" did NOT appear, Bluetooth connection may have been lost. To re-connect, take the following steps ;***

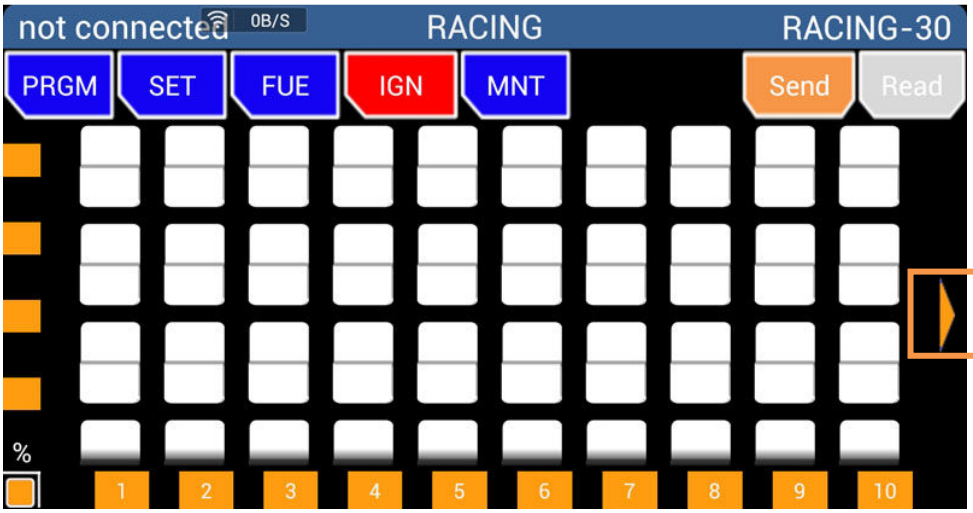
1. ***Shutdown the software completely***
2. ***Turn off the motorcycle main key once, and then turn it on again.***
3. ***Start over the software according to this manual item 2.4.***

7.2.2 Ignition Mapping

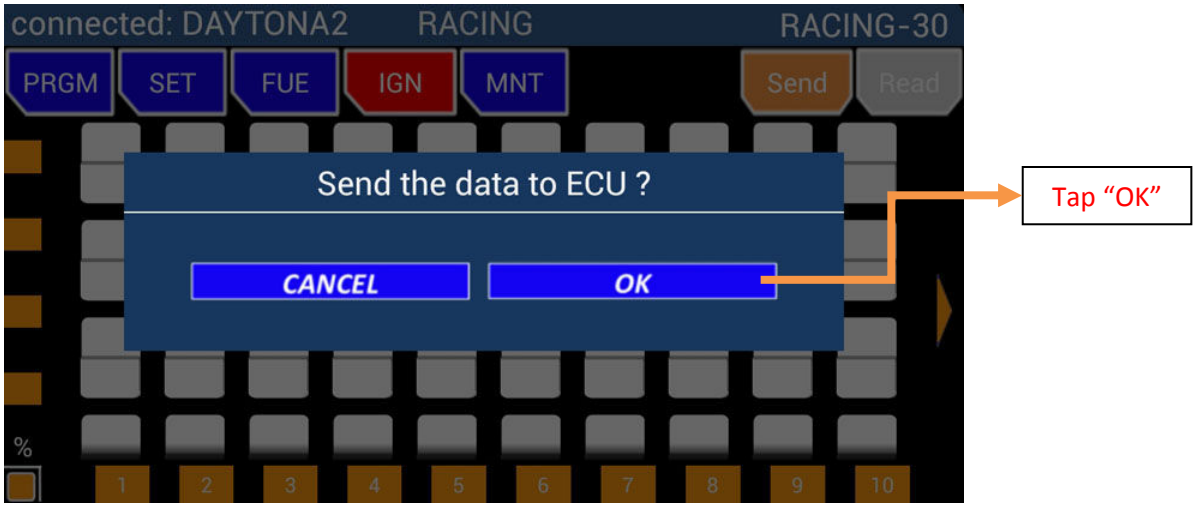
Tap IGN to go to ignition map.

To modify ignition map, tap one or more blue/white cells in the same way as the above item "6.2 FUEL MAPPING".

Once modified all, tap Send to send the modified data to ECU.



Then the following screen appears. Tap “OK” to confirm.

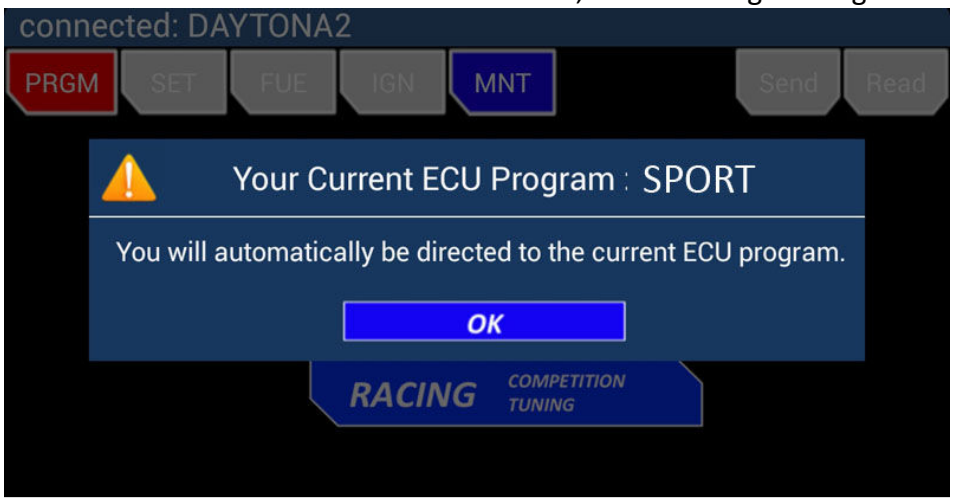


⚠ ***If the above message “Data Successfully Sent” did NOT appear, Bluetooth connection may have been lost. To re-connect, take the following steps ;***

1. ***Shutdown the software completely***
2. ***Turn off the motorcycle main key once, and then turn it on again.***
3. ***Start over the software according to this manual item 2.4***

8. Trouble Shooting

When the software is first connected to ECU, the following message shall appear ;



If this messages DID NOT appear on screen, the Bluetooth connection is supposed to be lost. To re-connect, take the following steps;

1. Shutdown the software completely
2. Turn off the motorcycle main key once, and then turn it on again
3. Start over the software according to this manual item 2.4